DRAFT

Initial Study and Mitigated Negative Declaration

Sandalwood Travel Center Project and Tentative Parcel Map 38215

FEBRUARY 2026

Prepared for:

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Acronyms and Abbreviations

Acronym/Abbreviation	Definition
AB	Assembly Bill
ABC	California Department of Alcoholic Beverage Control
AERMOD	American Meteorological Society/Environmental Protection Agency Regulatory Model
APN	Assessor's Parcel Number
AQMP	Air Quality Management Plan
BMP	best management practice
BUOW	burrowing owl
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emissions Estimator Model
CALGreen	California Green Building Standards
Caltrans	California Department of Transportation
CAP	Climate Action Plan
CARB	California Air Resources Board
CBB	Crotch's bumble bee
CDFW	California Department of Fish and Wildlife
CEQA	California Environmental Quality Act
CH_4	methane
CNDDB	California Natural Diversity Database
CNEL	community noise equivalent level
CO	carbon monoxide
CO_2	carbon dioxide
CO_2e	carbon dioxide equivalent
CUP	Conditional Use Permit
CWA	Clean Water Act
dB	decibels
dBA	A-weighted sound pressure level
DBESP	Determination of Biologically Equivalent or Superior Preservation
DPM	diesel particulate matter
EIC	Eastern Information Center
EIR	Environmental Impact Report
EO	Executive Order
EPA	U.S. Environmental Protection Agency
FHWA	Federal Highway Administration
GHG	greenhouse gas
GSA	Groundwater Sustainability Agency
GWP	global warming potential
HFC	hydrofluorocarbon
HMBP	Hazardous Materials Business Plan
HRA	health risk assessment

Acronym/Abbreviation	Definition
I	Interstate
in/sec	inches per second
IS	Initial Study
JPR	Joint Project Review
LACM	Natural History Museum of Los Angeles County
L_{eq}	equivalent continuous sound level
LOS	level of service
LRA	Local Responsibility Area
LST	localized significance threshold
MBTA	Migratory Bird Treaty Act
MLD	most likely descendant
MM	Mitigation Measure
MND	Mitigated Negative Declaration
MPD	multi-product fuel dispenser
MRZ	Mineral Resource Zone
MS4	municipal separate storm sewer (drain) system
MSHCP	Multiple Species Habitat Conservation Plan
MT	metric ton
N_2O	nitrous oxide
NAAQS	National Ambient Air Quality Standards
NAHC	Native American Heritage Commission
NEPSSA	Narrow Endemic Plant Species Survey Area
NO_2	nitrogen dioxide
NO_x	nitrogen oxides
NPDES	National Pollutant Discharge Elimination System
O_3	ozone
PCL	Proposed Constrained Linkage
PM_{10}	particulate matter with an aerodynamic diameter less than or equal to 10 microns
$PM_{2.5}$	particulate matter with an aerodynamic diameter less than or equal to 2.5 microns
PPV	peak particle velocity
PRC	Public Resources Code
RCA	Regional Conservation Authority
RCNM	Roadway Construction Noise Model
RTP	Regional Transportation Plan
RWQCB	Regional Water Quality Control Board
SB	Senate Bill
SCAB	South Coast Air Basin
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCE	Southern California Edison
SCIC	South Coastal Information Center
SCS	Sustainable Communities Strategy
SKR	Stephens' kangaroo rat

Acronym/Abbreviation	Definition
SMBMI	San Manuel Band of Mission Indians Cultural Resources Department
SO_x	sulfur oxides
SRA	State Responsibility Area
SWPPP	Stormwater Pollution Prevention Plan
TAC	toxic air contaminant
TCR	Tribal cultural resource
TIA	Traffic Impact Assessment
TPM	Tentative Parcel Map
USACE	U.S. Army Corps of Engineers
USFWS	U.S. Fish and Wildlife Service
UST	underground storage tank
VMT	vehicle miles traveled
VOC	volatile organic compound
VP	Vertebrate Paleontology
WQMP	Water Quality Management Plan

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1 Introduction

1.1 Project Overview

The project under consideration by the City of Calimesa (City) is on a 11.2-acre project site located at the intersection of Interstate (I) 10 and Sandalwood Drive in the City of Calimesa. The City is processing a development application from Sandalwood Travel Center, LP (development applicant), requesting entitlements for proposed subdivision of two parcels into three parcels, with a travel center on Assessor's Parcel Number (APN) 411-210-024 including fueling dispensers and a convenience store with a common area. Development of the travel center would also require off-site improvements totaling 1.9 acres.

In addition, the City received a separate application to process a Tentative Parcel Map (TPM) No. 38215 (also referred to as a "Finance Map") from San G Properties, LLC (TPM applicant) for APNs 411-210-024 and 411-210-006. The proposal is to split the site into three stand-alone parcels.

As the approval of the Sandalwood Travel Center development project ("development project" on Parcel 3 only) cannot proceed without the TPM (Finance Map) approval occurring first, these two activities are considered connected actions and would also be considered together as components in the whole of the action pursuant to the California Environmental Quality Act (CEQA). As stated in CEQA Section 15003, "[t]he lead agency must consider the whole of an action, not simply its constituent parts, when determining whether it will have a significant environmental effect." As such, the "proposed project" considered herein consists of the Sandalwood Travel Center development project and the TPM collectively. Any future development proposals on the northern parcels would occur as entitlement actions separately from the proposed project and would require independent analysis under CEQA.

1.2 California Environmental Quality Act Compliance

The City is the lead agency for the proposed project (CEQA Statute Section 21067 and CEQA Guidelines Article 4 and Section 15367). The City Council is the governing body for the approval of the proposed project and adoption of the Mitigated Negative Declaration (MND). Because the proposed project involves a change to the existing site, the City's consideration of the proposed project and its potential environmental effects is a discretionary action subject to CEQA. This Initial Study (IS) and its appendices have been prepared in accordance with the CEQA statute and the state's Guidelines for Implementation of CEQA. This IS, when combined with the Notice of Intent to Adopt an MND, serves as the environmental document for the proposed project pursuant to the provisions of CEQA.

The overarching goal of CEQA is to protect the physical environment. To achieve this goal, CEQA requires that public agencies identify the environmental consequences of their discretionary actions and consider alternatives and mitigation measures, if necessary, that could avoid or reduce significant adverse impacts when avoidance or reduction is feasible. It also gives other public agencies and the public an opportunity to comment on the proposed project.

1.3 Initial Study Checklist

This Environmental Checklist (i.e., Initial Study or "IS") has been prepared pursuant to CEQA Guidelines Sections 15063–15065. The CEQA Guidelines include a suggested checklist to indicate whether a project would have an adverse impact on the environment. The checklist and relevant analyses is found in Chapter 3, Initial Study

Checklist, of this document. Initial Study Checklist Sections 3.1 through 3.21 include an explanation and discussion of each significance determination made in the checklist for the proposed project.

For this IS/MND, one of the following four responses is possible for each environmental issue area:

- Potentially Significant Impact
- Less Than Significant Impact with Mitigation Incorporated
- Less Than Significant Impact
- No Impact

The checklist and accompanying explanation of checklist responses provide the information and analyses necessary to assess environmental impacts relative to the proposed project. In doing so, the City will determine the extent and adequacy of additional environmental review for the proposed project.

1.4 Public Review Process

Public participation is an essential part of the CEQA process. As required by CEQA, the City shall also provide adequate time for other public agencies and members of the public to review and comment on a CEQA document prepared for a proposed project. This IS/MND has been made available to members of the public, agencies, and interested parties for a 30-day public review period in accordance with CEQA Guidelines Section 15105. Public review of the IS/MND is intended to focus "on the proposed finding that the project will not have a significant effect on the environment. If persons and public agencies believe that a project as proposed may have a significant effect, they should: (1) identify the specific effect, (2) explain why they believe the effect would occur, and (3) explain why they believe the effect would be significant" (14 CCR 15204).

This Draft IS/MND is available for review during the 30-day public review period, and the link to this document is available for review on the main page of the City's website at www.cityofcalimesa.net. A hard copy of the Draft IS/MND can be provided by the City upon request. To request a hard copy of the IS/MND for review and/or to provide comments on the IS/MND, please submit to Kelly Lucia via phone or email:

Kelly Lucia, Community Development Director
Phone: 909.795.9801, extension 229
Email: klucia@calimesa.gov

Once the 30-day public review period has concluded, any advisory body of a public agency shall consider the IS/MND together with any comments received during the public review process. The decision-making body shall adopt the proposed MND if it finds there is no substantial evidence that the proposed project will have a significant effect on the environment that cannot be mitigated to less than significant levels, and that the MND reflects the lead agency's independent judgment and analysis. After approval of the project, the City shall file a Notice of Determination at the Riverside County Recorder-Clerk's office within five working days after deciding to carry out or approve the proposed project.

2 Project Description

2.1 Project Location

The project site is located in the northern portion of the City of Calimesa, in the County of Riverside. The 11.2-acre project site, inclusive of the 1.9-acre off-site right-of-way is generally bounded by a commercial development and Sandalwood Drive to the south, an undeveloped dirt lot and a single-family residence to the north, 7th Street to the west, and I-10 to the east. Regional access to the project site is provided by I-10. The 11.2-acre project site is assigned APNs 411-210-024 and 411-210-006. The project site is further defined as the northwest portion of Section 14, Township 2 South, Range 2 West of the San Bernardino Meridian. No development is proposed within the northern parcels (Parcels 1 and 2), which are collectively referred to as the northern parcels. The proposed development area consists of the southern parcel (Parcel 3), which is located within APN 411-210-024. Primary local access to the project site is provided via 7th Street, a northwest-oriented Secondary Arterial roadway. Figure 1, Project Location, shows the general location of the project site in relation to the larger Southern California region. Figure 2, Proposed TPM 32815 Finance Map, depicts the northern and Parcels 1 through 3, as described above.

2.2 Local Setting

As shown in Figure 2, an existing commercial development is located to the south, a single-family home and undeveloped area are located to the north, 7th Street and undeveloped land are located to the west, and undeveloped land and I-10 are located to the east of the site. The project site is gently sloping to the west, with elevations ranging from approximately 2,371 feet above mean sea level. The entire project site has been used for agriculture since at least 1938 (Historic Aerials 1958). Under prior environmental review and regulatory permits, the site was graded in 2009 for the purpose of implementing a drainage improvement project, but no other work has occurred on the site since 2009. The project site is still undeveloped, has tire tracks throughout, and appears to be subject to mowing and disking on a regular basis. Overhead utility lines run along the western perimeter of the project site on the east side of 7th Street.

2.3 Proposed Project

The proposed project consists of two components: an 11.2-acre TPM, and within that area, commercial development. The commercial development includes two components: the on-site development component consisting of the Sandalwood Travel Center and the off-site component consisting of 1/2-width street improvements to widen the road (directly along the east side of the proposed development area. As described in more detail below, the TPM proposes to split the site into three parcels, and the proposed commercial development project consists of the Sandalwood Travel Center located on Parcel 3 of the TPM. As the approval of the development project cannot proceed without the TPM approval occurring first, these two activities are considered connected actions and would also be considered together as components in the whole of the action pursuant to CEQA. As stated in CEQA Guidelines Section 15003, “[t]he lead agency must consider the whole of an action, not simply its constituent parts, when determining whether it will have a significant environmental effect.”

2.3.1 Tentative Parcel Map

The proposed TPM would split the 11.2-acre site into the three parcels described earlier. The project site is designated Community Commercial (C-C) in the General Plan Land Use Map (City of Calimesa 2014a) and the City's Zoning Districts (City of Calimesa 2014b) (Figure 3, General Plan Land Use and Zoning Designations). No changes to the land use designation or zoning are proposed as a part of the TPM. The proposed TPM is a Finance Map only, and no grading, new streets, development, or other physical improvements are proposed as part of the TPM.

2.3.2 Sandalwood Travel Center

The proposed development project would occur on Parcel 3 of the TPM and includes construction of a travel center which would include four multi-product fuel dispensers (MPDs), a convenience store with a common area, a five-position diesel canopy with six dispensers, parking, site access improvements, and signage (Figure 4, Site Plan). Additional details regarding each project component, including off-site improvements, as well as project construction activities, are included below. Development of the Sandalwood Travel Center would require Conditional Use Permits (CUPs) to allow the proposed operation of fuel dispensers and for the proposed sale of alcohol.

2.3.3 On-Site Development

Multi-Product Dispensers

The four MPDs, which dispense both gasoline and diesel fuel, would be developed in the northern portion of the development project site in a square-shaped alignment with an MPD in each corner. The MPDs would be located beneath a 35-foot-high canopy measuring approximately 5,000 square feet. Primary access to the MPDs within the project site would be from the south, east, and north sides of the MPDs.

Convenience Store

A convenience store and common area would be developed as a 7,034-square-foot structure in the center portion of Parcel 3. The convenience store would encompass approximately 4,884 square feet in the eastern portion of the building. The common area would encompass approximately 2,150 square feet in the western portion of the building. The common area would include restrooms, four shower rooms, a driver lounge, a business center, a storage room, a laundry area, and an outdoor patio with barbeque pit. The convenience store would include the sale of alcoholic beverages. The convenience store and common area would be designed and constructed in accordance with Calimesa Municipal Code Chapter 18.25.050(G).

Five-Position Diesel Canopy

The five-position diesel canopy with six diesel dispensers would be developed beneath an approximately 3,000-square-foot canopy south of the common area. Three underground storage tanks would be installed west of the fuel canopy to store fuel for the diesel fuel dispensers.

Parking

A total of 43 standard parking stalls would be developed. The parking stalls would be located north and west of the structure in the center of the site. A total of 12 electric vehicle charging station stalls would be located along the northern boundary of the site. A total of 19 semi-truck/trailer parking stalls would be developed on the southern side

of the project site. Six carpool parking stalls would also be provided. Parking stalls would be designed and installed in accordance with Calimesa Municipal Code Chapter 18.45 to ensure adequate on-site parking is available.

Site Access

Primary vehicular access to the Sandalwood Travel Center would be available from three driveways located within the northern, center, and southern areas of the project site. All three driveways would provide ingress/egress and would be located along 7th Street. The northern driveway would be located northwest of the MPDs, the center driveways would be located west of the fueling station, and the southern driveway would be located directly north of the existing commercial development. All three driveways would provide access to the project site via right-/left-turn access from 7th Street. All three driveways would be the standard maximum driveway width of 40 feet. The northern driveway would serve be a full-access driveway for the service station, convenience store, and common area. The center and southern driveways would be restricted to truck use only. The southern driveway would be an inbound-only full-access driveway, and the center driveway would be an outbound-only full-access driveway.

Signage

A new internally illuminated freeway pylon display sign would be constructed on the southeast corner of the project site and would be visible from I-10. The freeway pylon would contain digital signage for gasoline and diesel prices only. It would also contain static signage for the convenience store, fuel station, truck weighing scales, and other commercial tenants that may co-locate within the convenience store. With the approval of the proposed variance, the pylon sign would be 80 feet tall. Three additional 4-foot-tall monument signs would be constructed on the project site adjacent to 7th Street displaying signage for Tesla chargers, food establishments, racing fuel prices, and "Unocal" diesel prices for trucks. Additional smaller signage displaying gasoline and diesel prices and certified CAT scales would be located throughout the project site and on the proposed building.

2.3.4 Off-Site Improvements

The project includes approximately 1.9 acres of off-site improvements, which would consist of road improvements that include the eastern half of 7th Street, including curb and gutter installation and a V-ditch, just west of the proposed Sandalwood Travel Center along the western boundary of the property.

2.3.5 Project Construction

All construction activities would occur during the allowable hours established by Section 8.15.080(B) of the City's Municipal Code. Construction is anticipated to begin in 2026 and last approximately 12 months.

2.4 Project Approvals

As the lead agency under CEQA, the City has the primary responsibility for approving and carrying out the proposed project and for ensuring that CEQA and all other applicable regulations are met. The project entitlements from the City, as well as other agencies and their potential permitting approvals or review authority over the proposed project, are listed in Table 1.

Table 1. Approvals and Permits Required for the Proposed Project

Agency	Applicable Regulation/Approval/Permit
City of Calimesa	▪ Environmental Assessment (EA) for California Environmental Quality Act clearance ▪ Development Plan Review (DPR) for approval of the site plan, floor plan, architectural elevations, landscape plan, grading plan, and other site design elements ▪ Tentative Parcel Map to split the site into three parcels ▪ Conditional Use Permits to allow for the operation of the fuel dispensers and for the sale of alcohol ▪ Variance to allow for the development of an 80-foot-tall freeway pylon with digital fuel pricing and to allow three 4-foot-tall monument signs along 7th Street
State Water Resources Control Board	▪ Construction General Permit required for discharges of stormwater associated with construction activities
Regional Water Quality Control Board–Santa Ana Region (Region 8)	▪ Stormwater Pollution Prevention Plan – must be prepared prior to project construction and implemented during construction activities, pursuant to Construction General Permit
County of Riverside Department of Environmental Health	▪ Underground Storage Tank Permit
Yucaipa Valley Water District	▪ Development Agreement for requirements for sewer service (executed prior to issuance of any grading or building permit
South Mesa Water Company	▪ Review and approval of connection to South Mesa Water Company infrastructure for domestic water services
Southern California Gas	▪ Review and approval of natural gas service
Southern California Edison	▪ Review and approval of electrical service and proposed undergrounding of utility lines along 7th Street
California Department of Alcoholic Beverage Control (ABC)	▪ ABC Permit for the sale of alcohol

3 Initial Study Checklist

1. **Project title:**

   Sandalwood Travel Center Project and Tentative Parcel Map 38215

2. **Lead agency name and address:**

   City of Calimesa
   908 Park Avenue
   Calimesa, California 92320

3. **Contact person and phone number:**

   Kelly Lucia, Community Development Director
   909.795.9801 Ext. 229

4. **Project location:**

   APN 411-210-024 and APN 411-210-006 along I-10 at Sandalwood Drive in Calimesa, California 92320

5. **Project sponsor's name and address:**

   Development Applicant:

   Sandalwood Travel Center, LP
   PO Box 1958
   Corona, California 92878

   TPM Applicant:

   San G Properties, LLC
   PO Box 1112
   Corona Del Mar, California 92625

6. **General plan designation:**

   C-C – Community Commercial

7. **Zoning:**

   C-C – Community Commercial

8. **Description of project. (Describe the whole action involved, including but not limited to later phases of the project, and any secondary, support, or off-site features necessary for its implementation. Attach additional sheets if necessary):**

The project consists of two overall components: a commercial development (Sandalwood Travel Center or "development project") and the proposed 11.2-acre TPM on which the development project would be sited. The TPM would split the site into three separate parcels. The northern parcels (1 and 2) would be avoided and are not proposed for development at this time. Within the southern parcel (Parcel 3), the Sandalwood Travel Center development would include fueling dispensers and a convenience store with a common area. The development of the travel center would also require off-site improvements totaling 1.9 acres, which are included in the overall project acreage. As the approval of the development project cannot proceed without the TPM approval occurring first, these two activities are considered connected actions and would also be considered together as components in the whole of the action. The proposed project would require the following discretionary approvals:

- City approval of the IS/MND (EA 20-04)
- Tentative Parcel Map (TPM 38215)
- Development Plan Review (DPR 20-05)
- CUPs
  - CUP 20-04
  - CUP 20-05
- Variance
  - VAR 23-02

The detailed project description is included in Chapter 2 of this IS/MND.

9. **Surrounding land uses and setting (Briefly describe the project's surroundings):**

West: Mesa Verde Estates Specific Plan. Mixed Use (Commercial & MF 20 dwelling units per acre). Land directly west of 7th Street is currently undeveloped, but the Specific Plan has been approved.

South: C-C – Community Commercial. The land directly south of the project site is developed with two commercial structures.

East: I-10. The land east of the project site is designated as California Department of Transportation (Caltrans) right-of-way for I-10.

North: BP – Business Park. The land northwest of the project site is currently developed with a single-family home and the land to the northeast is undeveloped.

10. **Other public agencies whose approval is required (e.g., permits, financing approval, or participation agreement):**

- State Water Resources Control Board – Construction General Permit
- Regional Water Quality Control Board (RWQCB) – Santa Ana Region (Region 8) – Stormwater Pollution Prevention Plan (SWPPP)

- County of Riverside Department of Environmental Health – Underground Storage Tank Permit
- Yucaipa Valley Water District – Sewer connection and service
- South Mesa Water Company – Domestic water connection and service
- California Department of Alcoholic Beverage Control (ABC) – ABC Permit

11. Have California Native American Tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Public Resources Code section 21080.3.1? If so, is there a plan for consultation that includes, for example, the determination of significance of impacts to Tribal cultural resources, procedures regarding confidentiality, etc.?

Refer to Section 3.18, Tribal Cultural Resources, for a discussion of consultation between the City and California Native American Tribes.

Environmental Factors Potentially Affected

The environmental factors checked below would be potentially affected by this project. However, after implementation of mitigation, none of these impacts would be considered a "Potentially Significant Impact," as indicated by the checklist on the following pages. The boxes checked below indicate those resource areas requiring mitigation.

☐ Aesthetics	☐ Agriculture and Forestry Resources	☐ Air Quality
☒ Biological Resources	☒ Cultural Resources	☐ Energy
☒ Geology and Soils	☐ Greenhouse Gas Emissions	☐ Hazards and Hazardous Materials
☐ Hydrology and Water Quality	☐ Land Use and Planning	☐ Mineral Resources
☒ Noise	☐ Population and Housing	☐ Public Services
☐ Recreation	☐ Transportation	☒ Tribal Cultural Resources
☐ Utilities and Service Systems	☐ Wildfire	☒ Mandatory Findings of Significance

Determination (To be completed by the Lead Agency)

On the basis of this initial evaluation:

☐ I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.

☒ I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.

☐ I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.

☐ I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect (1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and (2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.

☐ I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier ENVIRONMENTAL IMPACT REPORT or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier ENVIRONMENTAL IMPACT REPORT or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

Kelly Lucia

Signature

February 6, 2026

Date

Evaluation of Environmental Impacts

1. A brief explanation is required for all answers except "No Impact" answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A "No Impact" answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A "No Impact" answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).
2. All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
3. Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. "Potentially Significant Impact" is appropriate if there is substantial evidence that an effect may be significant. If there are one or more "Potentially Significant Impact" entries when the determination is made, an Environmental Impact Report (EIR) is required.
4. "Negative Declaration: Less Than Significant With Mitigation Incorporated" applies where the incorporation of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less Than Significant Impact." The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level (mitigation measures from "Earlier Analyses," as described in (5) below, may be cross-referenced).
5. Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration. Section 15063l(3)(D). In this case, a brief discussion should identify the following:
    a. Earlier Analysis Used. Identify and state where they are available for review.
    b. Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.
    c. Mitigation Measures. For effects that are "Less Than Significant With Mitigation Measures Incorporated," describe the mitigation measures which were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.
6. Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.
7. Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.
8. This is only a suggested form, and lead agencies are free to use different formats; however, lead agencies should normally address the questions from this checklist that are relevant to a project's environmental effects in whatever format is selected.
9. The explanation of each issue should identify:
    a. The significance criteria or threshold, if any, used to evaluate each question; and
    b. The mitigation measure identified, if any, to reduce the impact to less than significance

3.1 Aesthetics

		Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
I.	**AESTHETICS –** Except as provided in Public Resources Code Section 21099, would the project**:**				
a)	Have a substantial adverse effect on a scenic vista?	☐	☐	☐	☒
b)	Substantially damage scenic resources including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	☐	☐	☐	☒
c)	In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?	☐	☐	☒	☐
d)	Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	☐	☐	☒	☐

TPM 38215 is a Finance Map only with no reasonably foreseeable development on the northern parcels. There would be no physical environmental changes on the northern parcels; therefore, no impacts would occur relative to aesthetics on the northern parcels. Any future development proposed on the northern parcels would be subject to a separate aesthetics analysis and associated CEQA process as determined by the City. The following analysis focuses only on the proposed Sandalwood Travel Center development on Parcel 3.

a) Would the project have a substantial adverse effect on a scenic vista?

No Impact. The pattern of ridges in the Calimesa area divides the area into distinctive visual units. The project site is within the Northern Plateaus and Ravines viewshed area, defined by the City's General Plan (City of Calimesa 2014a). The Northern Plateaus and Ravines are composed of higher plateaus and scattered scrub-covered ravines. Higher elevations in the Northern Plateaus and Ravines viewshed project panoramic views of the Yucaipa and San Jacinto valleys, the San Bernardino and San Jacinto Mountains, and surrounding communities. The project site is relatively flat, and elevation increases east of the site, west of 7th Street. The San Bernardino Mountains are visible in the distance from the project site to the northeast. Due to distance and nearby urban development, the project site would not be visible from scenic vistas in the San Bernardino Mountains. As such, the proposed project would have no impact on a scenic vista or view to nearby open space areas.

b) Would the project substantially damage scenic resources including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?

No Impact. The entire project site is currently vacant and has been previously disturbed from disking and other vegetation clearing activities intended to reduce wildfire risk. The project site is generally flat, containing minimal vegetation. Existing overhead power lines run north–south along the western project site boundary, adjacent to 7th Street. There are no visual resources, such as protected trees, rock outcroppings, or historic buildings, within the project site that would be impacted by development of the proposed project.

The nearest officially designated state scenic highway to the project site is Highway 38 (from 0.1 miles east of South Fork Camp Ground to State Lane, approximately 2.9 miles south of Route 18), located approximately 18.1 miles to the northeast, within the San Bernardino Mountains (Caltrans 2019). This 15.7-mile portion of Highway 38 is located within San Bernardino County, near Sugarloaf Mountain. Due to the project site's distance from the nearest designated state scenic highway, the proposed project would not substantially damage scenic resources within a state scenic highway. In addition, the City of Calimesa has not designated any local scenic corridors. As such, the proposed project would have no impact on a scenic resource within a state scenic highway.

c) In non-urbanized areas, would the project substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?

Less Than Significant Impact. The majority of the project site consists of undeveloped disturbed land with minimal vegetation. There are currently no sidewalks, curb-and-gutters, or landscaping improvements along the 7th Street frontage.

The proposed project would be developed in the northern portion of the City and southern portion of TPM 38215, adjacent to I-10, existing commercial development, and the Mesa Verde Specific Plan area. The closest residence is currently located north of the project site. The proposed Sandalwood Travel Center development project would be similar, in character and design, as the commercial development on the parcel directly to the south. The development applicant would be required to install pedestrian, storm drain, and landscape improvements within the perimeter of the site and along the frontage with 7th Street, consistent with City standard drawings and regulations. These improvements would aid in defining the roadway along the property boundary with landscaping improving the scenic quality of the site.

The project site is designated as Community Commercial (C-C) in the City's Land Use and Zoning Map (City of Calimesa 2014a). The proposed Sandalwood Travel Center development would not exceed the maximum permitted height of 35 feet within the C-C zoning designation, and the structures would be similar in height to adjacent commercial development. Figure 5, Canopy Elevations, shows front and side views of the canopies.

The Sandalwood Travel Center development convenience store, common area and fuel dispensers are conditionally permitted within the C-C zoning designation. In compliance with the City's Zoning Code, the applicant has applied to the City for CUPs (CUP 20-04, CUP 20-05) for operation of the fuel canopies and for the sale of alcohol, and the City will conduct discretionary review of the CUPs. Because the City currently

only allows the development of one monument sign on the site, the development applicant has applied to the City for a variance to allow the development of two additional monument signs and to allow an 80-foot-tall freeway pylon with digital fuel pricing. The City would approve the CUPs and variance if they determine that the proposed land uses have no adverse effect on the surrounding area.

Upon approval of the CUPs and variance, the project would introduce land uses within the consistent with the vision of the City's General Plan and consistent with the commercial development adjacent to the site. As such, the proposed project would not conflict with the zoning regulations governing scenic quality or substantially degrade the visual quality of the site. In conclusion, the proposed project would have a less than significant impact related to the existing visual character or quality of public views.

d) Would the project create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?

Less Than Significant Impact. Existing sources of nighttime lighting near the project site include lighting from the existing commercial development adjacent to the southern project boundary and lighting from I-10 east of the project site.

The development applicant would be required to install and maintain adequate lighting within the project site for security and safety purposes. New light sources associated with the project could introduce light and/or glare to the project area. Proposed light poles/fixtures would not exceed the maximum height of 20 feet (6.1 meters) allowed within commercial/industrial zones (City Municipal Code Chapter 18.120.090[C]). The project would also include the installation of three illuminated monument signs to display gasoline prices, food establishments, the Tesla charging station, and other relevant components of the project to motorists traveling along I-10. In addition, the lights would be shielded and directed downward to focus lighting within desired areas and minimize light spillover onto adjacent properties. Use of shields and directing of lighting would also reduce opportunities for glare associated with project lighting.

Potential impacts associated with lighting would be further reduced through compliance with the City's Municipal Code, Chapter 18.120.090. All lighting must also comply with Title 24 of the California Code of Regulations, Part 6 (and any successor regulations), and the Uniform Building and Electrical Codes. All lights shall be directed, oriented, and shielded to prevent light trespass or glare into adjacent properties, on public rights-of-way, and/or driveway areas. In addition, all outdoor lighting within the project site must be turned off or reduced by at least 50% beginning at 10:00 p.m. or close of business, until dawn or opening of business. For the reasons described above, project lighting and glare impacts would be less than significant and would not adversely affect existing nighttime and daytime views in the area.

3.2 Agriculture and Forestry Resources

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
II. AGRICULTURE AND FORESTRY RESOURCES – In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Department of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the project:				
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	☐	☐	☐	☒
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?	☐	☐	☐	☒
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?	☐	☐	☐	☒
d) Result in the loss of forest land or conversion of forest land to non-forest use?	☐	☐	☐	☒
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?	☐	☐	☐	☒

The following analysis is provided to address the agricultural and forestry resource impacts of the proposed project within the proposed TPM 38215 area, including the Sandalwood Travel Center development (i.e., Parcel 3 of the TPM). No development is proposed on the northern parcels.

a) Would the project convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?

No Impact. The project site is composed of vacant, disturbed land. The project site is identified as Farmland of Local Importance, and surrounding properties are identified as Urban and Built-Up Land and Other Land by the California Department of Conservation (DOC 2018). Based on review of historical aerials, the project

site and surrounding area have not been utilized for agricultural land uses for at least two decades (Google Earth 1996–2020). In addition, the City has designated the project site for commercial land uses (City of Calimesa 2014a). As such, construction and operation of the proposed project would not result in the conversion of important farmland to non-agricultural use.

b) Would the project conflict with existing zoning for agricultural use, or a Williamson Act contract?

No Impact. Refer to Section 3.2(a). The project site is zoned for Community Commercial (C-C) (City of Calimesa 2014b) and is not in a Williamson Act contract.

c) Would the project conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?

No Impact. The project site is composed of vacant, disturbed land, bounded by existing commercial development to the south, I-10 to the east, and additional vacant land to the north and west. Neither forest land nor timberlands are located on the project site; therefore, construction and operation of the proposed project would not impact these resources.

d) Would the project result in the loss of forest land or conversion of forest land to non-forest use?

No Impact. Refer to Section 3.2(c).

e) Would the project involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?

No Impact. Refer to Sections 3.2(a) and 3.2(c).

3.3 Air Quality

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
III. AIR QUALITY – Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make the following determinations. Would the project:				
a) Conflict with or obstruct implementation of the applicable air quality plan?	☐	☐	☒	☐
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?	☐	☐	☒	☐
c) Expose sensitive receptors to substantial pollutant concentrations?	☐	☐	☒	☐

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	☐	☐	☒	☐

TPM 38215 is a Finance Map only, with no reasonably foreseeable development on the northern parcels. There would be no physical environmental changes on the northern parcels; therefore, there would be no impacts to air quality relative to the northern parcels. Any future development proposed on the northern parcels would be subject to a separate air quality analysis and CEQA process as determined by the City. The following analysis focuses only on the proposed Sandalwood Travel Center development on Parcel 3, based on the air quality modeling results (included as Appendices A-1 and A-2 to this IS/MND).

a) Would the project conflict with or obstruct implementation of the applicable air quality plan?

Less Than Significant Impact. The project site is located within the South Coast Air Basin (SCAB) under the jurisdiction of the South Coast Air Quality Management District (SCAQMD), which is the local agency responsible for administration and enforcement of air quality regulations for the area. The SCAQMD has established criteria for determining consistency with the Air Quality Management Plan (AQMP), currently the 2022 AQMP (SCAQMD 2022), in Chapter 12, Sections 12.2 and 12.3, in the SCAQMD CEQA Air Quality Handbook (SCAQMD 1993). The criteria are as follows:

- **Consistency Criterion No. 1:** The project will not result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations, or delay the timely attainment of air quality standards of the interim emissions reductions specified in the AQMP.
- **Consistency Criterion No. 2:** The project will not exceed the assumptions in the AQMP or increments based on the year of project buildout and phase.

Consistency Criterion No. 1

Consistency Criterion No. 1 evaluates the proposed project's potential impacts regarding Impact 3.3(b) (the project's potential to violate any air quality standard or contribute substantially to an existing or projected air quality violation impact analysis). As discussed in the response to Impact 3.3(b), the proposed project would result in a less than significant impact associated with the violation of an air quality standard. Because the proposed project would not result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations, the proposed project would not conflict with Consistency Criterion No. 1 of the SCAQMD CEQA Air Quality Handbook.

Consistency Criterion No. 2

While striving to achieve the National Ambient Air Quality Standards (NAAQS) for ozone (O_3) and fine particulate matter ($PM_{2.5}$, particles less than 2.5 microns in diameter) and the California Ambient Air Quality Standards (CAAQS) for O_3, coarse particulate matter (PM_{10}, particles less than 10 microns in diameter), and $PM_{2.5}$ through a variety of air quality control measures, the 2022 AQMP also accommodates planned growth in the SCAB. Projects are considered consistent with, and would not conflict with or obstruct

implementation of, the AQMP if the growth in socioeconomic factors (e.g., population, employment) is consistent with the underlying regional plans used to develop the AQMP (per Consistency Criterion No. 2 of the SCAQMD CEQA Air Quality Handbook).

The SCAQMD primarily uses demographic growth forecasts for various socioeconomic categories (e.g., population, housing, employment by industry) developed by the Southern California Association of Governments (SCAG) for its Regional Transportation Plan (RTP) / Sustainable Community Strategies (SCS) (SCAG 2020), which is based on general plans for cities and counties in the SCAG, for the development of the AQMP emissions inventory (SCAQMD 2022).[1] The SCAG 2020 RTP/SCS (Connect SoCal), and associated Regional Growth Forecast, are generally consistent with the local plans; therefore, the 2022 AQMP is generally consistent with local government plans.

The project site is designated Community Commercial (C-C) in the General Plan Land Use Map (City of Calimesa 2014a) and the City's Zoning Districts (City of Calimesa 2014b). The proposed project will comply with all Zoning Code development and design standards for Commercial Zone Districts, outlined in Chapter 18.25 of the City's Municipal Code. A variance will be required for the installation of two (of the three) monument signs and to allow an 80-foot-tall freeway pylon with digital fuel pricing. The convenience store, common area and fuel dispensers are conditionally permitted within the C-C zoning designation. The proposed project would be consistent with the current zoning and General Plan land use designation. In addition, the proposed project does not include development that would result in population growth.

The proposed project is expected to employ up to 15 persons. According to SCAG's 2020 RTP/SCS, the 2016 employment was 1,600 jobs and the projection for 2045 is 4,100, with an annual growth rate of 83 jobs per year. The proposed project would not exceed the growth projections for employment. Because the proposed project is consistent with the growth projections of the City and the underlying growth projections of the 2022 Final AQMP, the proposed project would not result in a conflict with, or obstruct implementation of, the applicable air quality plan. Accordingly, the proposed project would meet Consistency Criterion No. 2 of the SCAQMD CEQA Air Quality Handbook.

Impact Summary

As described previously, the proposed project would not result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations and would not conflict with Consistency Criterion No. 1. The proposed project would be consistent with the land use assumptions and demographic growth forecasts in the SCAG 2020 RTP/SCS; therefore, it would also be consistent with the SCAQMD 2022 AQMP, which based future emission estimates on the SCAG 2020 RTP/SCS. Thus, the proposed project would not conflict with Consistency Criterion No. 2. Based on these considerations, impacts related to the proposed project's potential to conflict with or obstruct implementation of the applicable air quality plan would be less than significant.

[1] Information necessary to produce the emission inventory for the SCAB is obtained from the SCAQMD and other governmental agencies, including CARB, Caltrans, and SCAG. Each of these agencies is responsible for collecting data (e.g., industry growth factors, socio-economic projections, travel activity levels, emission factors, emission speciation profile, and emissions) and developing methodologies (e.g., model and demographic forecast improvements) required to generate a comprehensive emissions inventory. SCAG incorporates these data into their Travel Demand Model for estimating/projecting vehicle miles traveled and driving speeds. SCAG's socio-economic and transportation activities projections in their 2020 RTP/SCS are integrated in the 2022 AQMP (SCAQMD 2022).

b) Would the project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?

Less Than Significant Impact. Construction and operation of the proposed project would result in emissions of criteria air pollutants from mobile, area, and energy sources, which may cause exceedances of national and California ambient air quality standards or contribute to existing nonattainment of ambient air quality standards. The following discussion identifies potential short-term construction and long-term operational impacts that would result from implementation of the proposed project.

Construction Emissions

Emissions from the construction phase of the project were estimated using the California Emissions Estimator Model (CalEEMod) Version 2022.1.1.29 (CAPCOA 2022). Construction scenario assumptions, including phasing, equipment mix, and vehicle trips, were based on information provided by the development applicant and CalEEMod default values when project specifics were not known.

For purposes of estimating project emissions (including on-site and off-site construction activities) and based on information provided by the development applicant, construction of the project was assumed to have commenced in December 2025[2] and would last approximately 13 months, ending in December 2026. The analysis contained herein is based on the following assumptions (duration of phases are approximate):

- **Site Preparation:** 1 week (December 1, 2025–December 5, 2025)
- **Grading:** 2 weeks (December 6, 2025–December 17, 2025)
- **Building Construction:** 11 months (December 18, 2025–November 4, 2026)
- **Paving:** 1 month (November 5, 2026–November 30, 2026)
- **Architectural Coating:** 1 month (December 1, 2026–December 24, 2026)

The project is estimated to require 4,816 cubic yards of export during grading. CalEEMod default trip length values were used for the distances for all construction-related trips. Construction worker, vendor, and haul truck trips are based on CalEEMod default assumptions where project-specific information was not available.

The construction equipment mix and vehicle trips used for estimating the project-generated construction emissions are shown in Table 2, Construction Scenario Assumptions.

[2] The analysis assumed a construction start date of December 2025, which represented the earliest date construction would have initiated at the time of analysis. Assuming the earliest start date for construction represents the worst-case scenario for criteria air pollutant and GHG emissions because equipment and vehicle emission factors for later years would be slightly less due to more stringent standards for in-use off-road equipment and heavy-duty trucks, as well as fleet turnover replacing older equipment and vehicles in later years.

Table 2. Construction Scenario Assumptions

Construction Phase	One-Way Vehicle Trips			Equipment		
	Average Daily Worker Trips	Average Daily Vendor Truck Trips	Total Haul Truck Trips	Equipment Type	Quantity	Usage Hours
Site Preparation	18	4	0	Rubber Tired Dozers	3	8
				Tractors/Loaders/Backhoes	4	8
Grading	16	4	76	Excavators	1	8
				Graders	1	8
				Rubber Tired Dozers	1	8
				Tractors/Loaders/Backhoes	3	8
Building Construction	68	28	0	Cranes	1	7
				Forklifts	3	8
				Generator Sets	1	8
				Tractors/Loaders/Backhoes	3	7
				Welders	1	8
Paving	20	4	0	Cement and Mortar Mixers	2	6
				Pavers	1	8
				Paving Equipment	2	6
				Rollers	2	6
				Tractors/Loaders/Backhoes	1	8
Architectural Coating	14	4	0	Air Compressors	1	6

Source: See Appendices A-1 and A-2 for details.

Any future construction resulting from implementation of the project would be required to comply with SCAQMD Rule 403 to control dust emissions during any dust-generating activities. SCAQMD Rule 403 requires implementation of various best available fugitive dust control measures for all construction activity sources within its jurisdictional boundaries. Dust control measures include, but are not limited to, maintaining stability of soil through pre-watering of site prior to clearing, grubbing, cut and fill, and earth-moving activities; stabilizing soil during and immediately after clearing, grubbing, cut and fill, and other earth-moving activities; stabilizing backfill during handling and at completion of activity; and pre-watering material prior to truck loading and ensuring that freeboard exceeds 6 inches. While SCAQMD Rule 403 requires fugitive dust control beyond watering control measures, compliance with Rule 403 is represented in CalEEMod by assuming twice daily watering of active sites (55% reduction in PM_{10} and $PM_{2.5}$ [CAPCOA 2022]).

Construction of the proposed project would result in the temporary addition of pollutants to the local airshed caused by on-site sources (i.e., off-road construction equipment, soil disturbance, and volatile organic compound off-gassing) and off-site sources (i.e., on-road haul trucks, vendor trucks, and worker vehicle trips). Construction emissions can vary substantially from day to day, depending on the level of activity, the specific type of operation, and for dust, the prevailing weather conditions. Therefore, such emission levels can only approximately be estimated with a corresponding uncertainty in precise ambient air quality impacts.

Internal combustion engines used by construction equipment, vendor trucks (i.e., delivery trucks), and worker vehicles would result in emissions of volatile organic compounds (VOCs), nitrogen oxides (NO_x), carbon monoxide (CO), PM_{10}, and $PM_{2.5}$. The application of architectural coatings, such as exterior application/interior paint and other finishes, and application of asphalt pavement would also produce VOC emissions; however, the development applicant is required to procure architectural coatings from a supplier in compliance with the requirements of SCAQMD's Rule 1113 (Architectural Coatings).

Table 3 presents the estimated maximum daily construction emissions generated during construction of the proposed project.

Table 3. Estimated Maximum Daily Construction Criteria Air Pollutant Emissions

Year	VOC	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
	Pounds per Day					
2025	3.39	31.87	31.27	0.06	21.29	11.43
2026	3.93	11.09	18.13	0.03	1.52	0.64
Maximum Daily Emissions	**3.93**	**31.87**	**31.27**	**0.06**	**21.29**	**11.43**
SCAQMD Threshold	*75*	*100*	*550*	*150*	*150*	*55*
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

Source: Appendix A-1.
Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter.
The values shown are the maximum summer or winter daily emissions results from California Emissions Estimator Model (CalEEMod).

As shown on Table 3, daily construction emissions would not exceed the SCAQMD significance thresholds for VOC, NO_x. CO, sulfur oxides (SO_x), PM_{10}, or $PM_{2.5}$ during construction in all construction years. Construction-generated emissions would be temporary and would not represent a long-term source of criteria air pollutant emissions. As such, impacts would be less than significant.

Operational Emissions

Operation of the proposed project would produce VOCs, NO_x, CO, SO_x, PM_{10}, and $PM_{2.5}$ emissions from area sources, including natural gas combustion, use of consumer products, and motor vehicle trips the project site. Area source emissions also include fugitive VOC emissions from the fueling station from loading, breathing, refueling, hose permeation, and spillage.

Area Sources

CalEEMod was used to estimate operational emissions from area sources, including emissions from hearths, consumer product use, architectural coatings, and landscape maintenance equipment. Emissions associated with natural gas usage in space heating, water heating, and stoves are calculated in the building energy use module of CalEEMod, as described in the following text. A spreadsheet model was used to estimate emissions from the fueling station.

Consumer products are chemically formulated products used by household and institutional consumers, including detergents; cleaning compounds; polishes; floor finishes; cosmetics; personal care products; home, lawn, and garden products; disinfectants; sanitizers; aerosol paints; and automotive specialty products. Other paint products, furniture coatings, or architectural coatings are not considered consumer

products (CAPCOA 2022). Consumer product VOC emissions are estimated in CalEEMod based on the floor area of residential buildings and on the default factor of pounds of VOC per building square foot per day.

VOC off-gassing emissions result from evaporation of solvents contained in surface coatings such as in paints and primers using during building maintenance. CalEEMod calculates the VOC evaporative emissions from application of residential surface coatings based on the VOC emission factor, the building square footage, the assumed fraction of surface area, and the reapplication rate. The VOC emission factor is based on the VOC content of the surface coatings and CalEEMod default values, which include 50 grams per liter VOC for residential interior and exterior surfaces. SCAQMD's Rule 1113 (Architectural Coatings) would govern the VOC content for interior and exterior coatings.[3] The CalEEMod default reapplication rate of 10% of area per year is assumed.

Landscape maintenance includes fuel combustion emissions from equipment such as lawn mowers, rototillers, shredders/grinders, blowers, trimmers, chain saws, and hedge trimmers. The emissions associated from landscape equipment use are estimated based on CalEEMod default values for emission factors (grams per residential dwelling unit per day) and number of summer days (when landscape maintenance would generally be performed) and winter days.

Fugitive VOC emissions from fueling operations were estimated based on the annual throughput and emissions factors from the SCAQMD Risk Assessment Procedures for Rules 1401, 1401.1, and 212 (SCAQMD 2024).

Energy Sources

As represented in CalEEMod, energy sources include emissions associated with building electricity and natural gas usage. Electricity use would contribute indirectly to criteria air pollutant emissions; however, the emissions from electricity use are only quantified for greenhouse gas (GHG) emissions in CalEEMod, since criteria pollutant emissions would occur at the site of power plants which are already regulated in terms of criteria air pollutant emissions. These indirect air emissions are not included in the air quality analysis. However, natural gas combustion would occur within the project site itself, in association with equipment that uses natural gas. As such, natural gas use within the project site is estimated and modeled in CalEEMod. For nonresidential buildings, CalEEMod energy intensity values (natural gas usage per square foot per year) assumptions were based on the California Commercial End-Use Survey database. CalEEMod default values for energy consumption assume compliance with the 2019 Title 24 Building Energy Efficiency Standards.

Mobile Sources

Mobile sources for the development scenario would primarily be motor vehicles (automobiles and light-duty trucks) traveling to and from the site. Motor vehicles may be fueled with gasoline, diesel, or alternative fuels. The default vehicle mix provided in CalEEMod 2022, which is based on the California Air Resources Board (CARB) Mobile Source Emissions Inventory model (EMFAC) version 2021, was applied for all land

[3] SCAQMD Rule 1113 includes a 50 grams per liter VOC content limit for both flat and non-flat coatings, which are the most common coatings for interior and exterior paint applications. Accordingly, the CalEEMod default values applied are generally consistent with the air district architectural coating rules.

use types. Emission factors representing year 2027 were used to estimate emissions associated with the final buildout year associated with implementation of the project.

Applied trip generation rates for the buildout development scenario are based on the traffic impact analysis found in Appendix J-1.

Table 4 summarizes the operational emissions criteria pollutants that would be generated from the proposed project. Operational emissions were then compared to the SCAQMD operational thresholds.

Table 4. Estimated Maximum Daily Operational Criteria Air Pollutant Emissions

Emission Source	VOC	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
	Pounds per Day					
Area	4.17	<0.01	0.11	<0.00	<0.01	<0.01
Energy	<0.01	0.06	0.05	<0.01	<0.01	<0.01
Mobile	13.26	42.37	132.56	0.55	36.97	9.92
Total	**17.43**	**42.43**	**132.72**	**0.55**	**36.97**	**9.92**
SCAQMD Threshold	*55*	*55*	*550*	*150*	*150*	*55*
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

Source: Appendix A-1.
Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; SCAQMD = South Coast Air Quality Management District.
The values shown are the maximum summer or winter daily emissions results from California Emissions Estimator Model (CalEEMod).
<0.01 = value less than reported 0.01 metric tons per year.

As shown in Table 4, the combined daily area, energy, and mobile source emissions would not exceed the SCAQMD operational thresholds for VOC, NO_x, CO, SO_x, PM_{10}, and $PM_{2.5}$. In addition, idling vehicles associated with the retail and fueling station would not result in occurrence of CO hotspots due to exceedance of CO health-related air quality standards. A full analysis of CO hotspots is included in Section 3.3(c). Therefore, impacts associated with proposed project-generated operational criteria air pollutant emissions would be less than significant.

c) Would the project expose sensitive receptors to substantial pollutant concentrations?

Less Than Significant Impact. Air quality varies as a direct function of the type and amount of pollutants emitted into the atmosphere, the size and topography of the air basin, and the prevailing meteorological conditions. Air quality problems arise when the rate of pollutant emissions exceeds the rate of dispersion. Reduced visibility, eye irritation, and adverse health impacts upon those persons termed "sensitive receptors" are the most serious hazards of existing air quality conditions. Sensitive receptors include residences, schools, playgrounds, child-care centers, athletic facilities, long-term health-care facilities, rehabilitation centers, convalescent centers, and retirement homes. The discussion below reviews the significance of emissions within the context of potential impacts to sensitive receptors. Sensitive receptors in the vicinity of the project site include single-family residential uses to the east and northwest of the project site, approximately 1,100 feet from the project site.

Localized Significance Thresholds

The SCAQMD recommends a localized significance threshold (LST) analysis to evaluate localized air quality impacts to sensitive receptors in the immediate vicinity of the project site as a result of construction activities. The impacts were analyzed using methods consistent with those in the SCAQMD's Final Localized Significance Threshold Methodology (SCAQMD 2009). The project site is located in Source Receptor Area 28 (Hemet/San Jacinto Valley). The project construction activities would occur over an almost 4-acre work area; therefore, for the purposes of the LST analysis, emissions thresholds based on a 2-acre site were utilized. This is a conservative approach, as LSTs increase with the size of project site. As mentioned previously, the closest sensitive receptors are residences located 1,100 feet (335 meters) from project site. The closest receptor distance in the SCAQMD LST Methodology is 200 meters (656 feet) which was assumed for this analysis. This is considered conservative as the farther away the receptor is located, the more the LST increases.

Project construction activities would result in temporary sources of on-site criteria air pollutant emissions associated with construction equipment exhaust and dust-generating activities. The maximum daily on-site construction emissions generated during construction of the proposed project is presented in Table 5, and compared to the SCAQMD localized significance criteria for Source Receptor Area 28 to determine whether project-generated on-site construction emissions would result in less than significant impacts.

Table 5. Construction Localized Significance Thresholds Analysis

Year	NO_2	CO	PM_{10}	$PM_{2.5}$
	Pounds per Day (On Site)			
2025	31.64	30.18	21.02	11.36
2026	9.85	12.97	0.38	0.35
Maximum Daily Emissions	**31.64**	**30.18**	**21.02**	**11.36**
SCAQMD LST Criteria	*521*	*6,399*	*75*	*23*
Threshold Exceeded?	**No**	**No**	**No**	**No**

Source: Appendix A-1.
Notes: NO_2 = nitrogen dioxide; CO = carbon monoxide; PM_{10} = particulate matter; $PM_{2.5}$ = fine particulate matter; SCAQMD = South Coast Air Quality Management District; LST = localized significance threshold.
Localized significance thresholds are shown for a 1-acre project site corresponding to a distance to a sensitive receptor of 25 meters.

As shown in Table 5, proposed construction activities would not generate emissions in excess of site-specific LSTs; therefore, localized project construction impacts would be less than significant.

CO Hotspots

Traffic-congested roadways and intersections have the potential to generate localized high levels of CO. Localized areas where ambient concentrations exceed federal and/or state standards for CO are termed CO "hotspots." CO transport is extremely limited because CO disperses rapidly with distance from the source. Under certain extreme meteorological conditions, however, CO concentrations near a congested roadway or intersection may reach unhealthy levels, affecting sensitive receptors.

Typically, high CO concentrations are associated with severely congested intersections. Projects contributing to adverse traffic impacts may result in the formation of a CO hotspot. Additional analysis of CO hotspot impacts would be conducted if a project would result in a significant impact or contribute to an

adverse traffic impact at a signalized intersection that would potentially subject sensitive receptors to CO hotspots. A detailed CO analysis was conducted in the Federal Attainment Plan for Carbon Monoxide for the SCAQMD's 2003 Air Quality Management Plan. The Wilshire Boulevard/Veteran Avenue intersection is one of the most congested intersections in Southern California with an average daily traffic volume of approximately 100,000 vehicles per day. The Wilshire Boulevard/Veteran Avenue intersection in Los Angeles experienced CO concentrations of 4.6 parts per million, which is well below the 35 parts per million 1-hour CO federal standard.

During construction of the proposed project, construction traffic would affect the intersections near the project site. However, construction activities would be temporary and would not be a source of substantial daily vehicle trips. Regarding long-term mobile-source emissions, the proposed project would generate an average daily traffic volume of 3,693 vehicles per day. As the CO hotspots were not experienced at the Wilshire Boulevard/Veteran Avenue intersection (one of the busiest intersections in the Basin), it can be reasonably inferred that CO hotspots would not be experienced at any intersections within the City of Calimesa near the project site. In addition, as discussed in Section 3.17, Transportation, study area intersections would operate at acceptable levels. Therefore, the proposed project would not generate substantial traffic volumes and impacts related to CO hot spots would be less than significant.

Toxic Air Contaminants

A health risk assessment (HRA) was performed to evaluate potential health risk associated with construction and operation of the project. The following discussion summarizes the dispersion modeling and HRA methodology; supporting construction HRA documentation, including detailed assumptions, is presented in Appendix A-2.

For risk assessment purposes, PM_{10} in diesel exhaust is considered diesel particulate matter (DPM), originating mainly from off-road equipment operating at a defined location for a given length of time at a given distance from sensitive receptors. Less-intensive, more-dispersed emissions result from on-road vehicle exhaust (e.g., heavy-duty diesel trucks). For the construction HRA, the CalEEMod scenario for the project was adjusted to reduce diesel truck one-way trip distances to 0.25 acres to estimate emissions from truck pass-by at proximate receptors (SJVAPCD 2024).

For the operational HRA, there may be DPM emissions from heavy-duty diesel trucks visiting the site as well as fugitive toxic air contaminants (TACs) from vehicle fueling operations. DPM emissions were estimated using CalEEMod and routes provided by Ganddini Group, Inc. (Appendix J-1). The TAC emissions from fueling activities were estimated based on emission factors from SCAQMD (SCAQMD 2024).

The air dispersion modeling methodology was based on generally accepted modeling practices of SCAQMD (SCAQMD n.d.). Air dispersion modeling was performed using the EPA's American Meteorological Society/Environmental Protection Agency Regulatory Model (AERMOD) Version 23132 modeling system (computer software) with the Lakes Environmental Software implementation/user interface, AERMOD View Version 12.0.0. The HRA followed the Office of Environmental Health Hazard Assessment's 2015 guidelines (OEHHA 2015) and SCAQMD guidance to calculate the health risk impacts at all proximate receptors as further discussed below. The dispersion modeling included the use of standard regulatory default options. AERMOD parameters were selected consistent with the SCAQMD and EPA guidance and identified as representative of the project site and project activities. Principal parameters of this modeling are presented in Table 6.

Table 6. American Meteorological Society/Environmental Protection Agency Regulatory Model Principal Parameters – Construction HRA

Parameter	Details
Meteorological Data	AERMOD-specific meteorological data for the Redlands air monitoring station was used for the dispersion modeling. A 5-year meteorological dataset from 2018, 2019, and 2021–2023 was obtained from the SCAQMD in a preprocessed format suitable for use in AERMOD.
Urban versus Rural Option	Urban dispersion option was selected SCAQMD guidelines, which is the SCAQMD policy for all air quality impact analyses in its jurisdiction (SCAQMD 2022).
Terrain Characteristics	The elevation of the site is 2,394 feet above sea level and the surrounding area is predominantly hilly.
Elevation Data	Digital elevation data were imported into AERMOD and elevations were assigned to receptors and emission sources, as necessary. Digital elevation data were obtained through the AERMOD View in the U.S. Geological Survey's National Elevation Dataset format with a resolution of 1 degree (approximately 30 meters [100 feet]), consistent with the SCAQMD guidance (SCAQMD 2022).
Source Release Characterizations	Construction: The modeled line of volume sources was placed to cover the site for exhaust emissions. A plume height dimension of 20 meters (66 feet), a plume width dimension of 20 meters, and a release height of 10 meters (33 feet) were assumed for off-road equipment and diesel trucks (SCAQMD 2008). Operation: The modeled line of volume sources was used to represent diesel truck exhaust running emissions. A plume height dimension of 20 meters, a plume width dimension of 20 meters, and a release height of 10 meters were assumed for diesel trucks (EPA 2024). Loading and breathing emissions from gasoline and E-85 were modeled as point sources with a release height of 3.66 meters (12 feet) and diameter of 0.05 meters (0.16 feet). Refueling, spillage, and hose permeation emissions are modeled as volume sources with horizontal dimensions of 13 meters (43 feet) by 13 meters to correspond to the dimensions of the pump islands, a vertical dimension of 5 meters to correspond to the height of the canopy, and release height of 1 meter (3.3 feet) (SCAQMD 2024).

Source: See Appendix A-2.
Notes: HRA = health risk assessment; AERMOD = American Meteorological Society/Environmental Protection Agency Regulatory Model; SCAQMD = South Coast Air Quality Management District.

Regarding receptors, the construction scenario used a fine cartesian grid of 20-meter (66-foot) spacing was placed over proximate residences to the site. Discrete receptors were also placed on rural residences.

AERMOD was run with all sources emitting unit emissions (1 gram per second) to obtain the necessary input values for Hotspots Analysis and Reporting Program (HARP2). The line of volume sources was partitioned evenly based on the 1 gram per second emission rate. The ground-level concentration plot files were then used to estimate the long-term cancer health risk to an individual, and the non-cancerous chronic and acute health indices.

Cancer risk is defined as the increase in probability (chance) of an individual developing cancer due to exposure to a carcinogenic compound, typically expressed as the increased chances in one million. Maximum Individual Cancer Risk is the estimated probability of a maximally exposed individual potentially contracting cancer as a result of exposure to TACs over a period of 30 years for residential receptor locations. For the construction HRA, the TAC exposure period was assumed to be from third trimester of pregnancy for 1.08 years for all off-site receptor locations (i.e., the assumed duration of project

construction). For the operational HRA, the TAC exposure period was assumed to be from third trimester of pregnancy for 30 years.

The SCAQMD has also established non-carcinogenic risk parameters for use in HRAs since some TACs increase non-cancerous health risk due to long-term (chronic) exposures and some TACs increase non-cancerous health risk due to short-term (acute) exposures. Chronic exposure is evaluated in the construction HRA. Non-carcinogenic risks are quantified by calculating a hazard index, expressed as the ratio between the ambient pollutant concentration and its toxicity or reference exposure level, which is a concentration at or below which health effects are not likely to occur. The chronic hazard index is the sum of the individual substance chronic hazard indices for all TACs affecting the same target organ system. A hazard index less than one (1.0) means that adverse health effects are not expected. Results of the construction HRA are presented in Table 7.

Table 7. Construction Health Risk Assessment Results

Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
Maximum Individual Cancer Risk – Residential	Per Million	2.9	10	Less than Significant
Chronic Hazard Index – Residential	Index Value	0.003	1.0	Less than Significant

Source: SCAQMD 2024.
Note: CEQA = California Environmental Quality Act.
See Appendix A-2.

As shown in Table 7, project construction activities would result in a Residential Maximum Individual Cancer Risk of 2.9 in 1 million for off-site receptors, which is below the significance threshold of 10 in 1 million. Project construction would result in a Residential Chronic Hazard Index of 0.003 for off-site receptors, which is below the 1.0 significance threshold. The project construction TAC health risk impacts would be less than significant. The results of the operational HRA are shown in Table 8.

Table 8. Operational Health Risk Assessment Results

Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
Maximum Individual Cancer Risk – Residential	Per Million	1.3	10	Less than Significant
Chronic Hazard Index – Residential	Index Value	0.0004	1.0	Less than Significant
Acute Hazard Index - Residential	Index Value	0.0006	1.0	Less than Significant

Source: SCAQMD 2024.
Note: CEQA = California Environmental Quality Act.
See Appendix A-2.

As shown in Table 8, project operational activities would result in a Residential Maximum Individual Cancer Risk of 1.3 in 1 million for off-site receptors, which is less than the significance threshold of 10 in 1 million. Project operation would result in a Residential Chronic Hazard Index of 0.0004 and a Residential Acute Hazard Index of 0.0006, which is below the 1.0 significance threshold. The project operational TAC health risk impacts would be less than significant.

Health Effects of Criteria Air Pollutants

Construction emissions of the proposed project would not exceed the SCAQMD thresholds for any criteria air pollutants, including VOC, NO_x, CO, SO_x, PM_{10}, and $PM_{2.5}$.

Health effects associated with O_3 include respiratory symptoms, worsening of lung disease leading to premature death, and damage to lung tissue (CARB 2019). VOCs and NO_x are precursors to O_3, for which the SCAB is designated as nonattainment with respect to the NAAQS and CAAQS. The contribution of VOCs and NO_x to regional ambient O_3 concentrations is the result of complex photochemistry. The increases in O_3 concentrations in the SCAB due to O_3 precursor emissions tend to be found downwind of the source location because of the time required for the photochemical reactions to occur. Furthermore, the potential for exacerbating excessive O_3 concentrations would also depend on the time of year that the VOC emissions would occur, because exceedances of the O_3 NAAQS and CAAQS tend to occur between April and October when solar radiation is highest. Due to the lack of quantitative methods to assess this complex photochemistry, the holistic effect of a single project's emissions of O_3 precursors is speculative. That being said, because the proposed project would not exceed the SCAQMD thresholds during construction or operational activities, the project would not contribute to health effects associated with O_3.

Health effects associated with NO_x include lung irritation and enhanced allergic responses (CARB 2019). Because project-related NO_x emissions would not exceed the SCAQMD mass daily thresholds, and because the SCAB is a designated attainment area for nitrogen dioxide (NO_2) and the existing NO_2 concentrations in the area are well below the NAAQS and CAAQS standards, it is not anticipated that the proposed project would cause an exceedance of the NAAQS and CAAQS for NO_2 or result in potential health effects associated with NO_2 and NO_x.

Health effects associated with CO include chest pain in patients with heart disease, headache, light-headedness, and reduced mental alertness (CARB 2019). CO tends to be a localized impact associated with congested intersections. The associated potential for CO hotspots was discussed previously and determined to be less than significant. Thus, the proposed project's CO emissions would not contribute to significant health effects associated with CO.

Health effects associated with PM_{10} include premature death and hospitalization, primarily for worsening of respiratory disease (CARB 2019). The proposed project would result in a temporary increase in fugitive dust emissions during construction activities, when ground disturbance would expose loose soils to wind erosion. Construction of the proposed project would not exceed thresholds for PM_{10} or $PM_{2.5}$, would not contribute to exceedances of the NAAQS and CAAQS for particulate matter, and would not obstruct the SCAB from coming into attainment for these pollutants. The proposed project would also not result in substantial DPM emissions during construction. In addition, the proposed project would be required to comply with SCAQMD Rule 403, which limits the amount of fugitive dust generated during construction. Due to the minimal contribution of particulate matter during construction, the proposed project is not anticipated to result in health effects associated with PM_{10} or $PM_{2.5}$.

In summary, construction and operation of the proposed project would not result in exceedances of the SCAQMD significance thresholds for criteria pollutants, and potential health effects associated with criteria air pollutants would be less than significant.

d) Would the project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

Less Than Significant Impact. The occurrence and severity of potential odor impacts depend on numerous factors. The nature, frequency, and intensity of the source; wind speed and direction; and the sensitivity of the receiving location each contribute to the intensity of the impact. Although offensive odors seldom cause physical harm, they can be annoying, cause distress among the public, and generate citizen complaints.

Construction Emissions

During project construction, exhaust from equipment may produce discernible odors typical of most construction sites. Potential odors produced during construction would be attributable to concentrations of unburned hydrocarbons from tailpipes of construction equipment. However, such odors would disperse rapidly from the project site and generally occur at magnitudes that would not affect substantial numbers of people.

Operational Emissions

Land uses and industrial operations associated with odor complaints include agricultural uses, wastewater treatment plants, food-processing plants, chemical plants, composting, refineries, landfills, dairies, and fiberglass molding (SCAQMD 1993). Operation of the project would create odors related to recreational vehicle fueling at the proposed fuel facility. These odors would be temporary and dissipated quickly by regional air movement and localized winds, and no buildup of odors is expected to occur. In addition, the fuel facility would be equipped with Phase I and Phase II controls to be in compliance with CARB and SCAQMD requirements for installing a vapor recovery system to collect gasoline vapors during fuel delivery or fuel storage and vehicle fueling, which would also have a co-benefit for controlling odors. This system will control at least 90% of the fuel vapors typically vented and the associated odors.

3.4 Biological Resources

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
IV. BIOLOGICAL RESOURCES – Would the project:				
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?	☐	☒	☐	☐

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?	☐	☐	☐	☒
c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	☐	☒	☐	☐
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	☐	☐	☒	☐
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	☐	☐	☐	☒
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	☐	☒	☐	☐

TPM 38215 is a Finance Map only, with no reasonably foreseeable development on the northern parcels. As such, there would be no permanent physical environmental changes on the northern parcels; therefore, there would be no impacts to biological resources on the northern parcels. It should be noted that pursuant to the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP) and for the purpose of the Joint Project Review (JPR) process, the Regional Conservation Authority (RCA) required that, in the event of future development, the biological resources and MSHCP consistency analysis cover the entire project site rather than just the proposed Sandalwood Travel Center development project site (Parcel 3). Any future development proposed on the northern parcels would be subject to an updated separate biological resources analysis and associated CEQA process as determined by the City. Should the project footprint that is currently pending JPR consistency findings from RCA change in the future, an Amended JPR process may also be required. The following analysis discusses all three parcels, and is based on the biological resources analysis included in this IS/MND as Appendix B, General Biological Resources Assessment (Assessment).

3.4.1 General Biological Resources Assessment

The biological analysis for the proposed Sandalwood Travel Center development relies on the Assessment prepared by HELIX Environmental Planning (HELIX) in January 2026 (Appendix B). The area studied in the Assessment covers two existing APNs (411-210-006 and 411-210-024) plus an off-site right-of-way and a study buffer for a total 11.2-

acre project site. As part of the Finance Map (TPM 38215), these APNs will ultimately be subdivided into three APNs (identified as Parcels 1, 2, and 3 for the purpose of this IS/MND). No development is currently proposed on Parcels 1 and 2 (the northern parcels) in the central and northern portions of the project site. Although the northern parcels were included as part of the Assessment, the only impacts that would occur are associated with the proposed Sandalwood Travel Center development project in the southern portion of the project site, specifically on Parcel 3.

The Assessment included a review of project plans, a literature review of biological resources occurring on the project site and surrounding vicinity, a general biological survey, including vegetation mapping and a general habitat assessment, a narrow endemic plant species assessment, a burrowing owl (*Athene cunicularia*) (BUOW) habitat assessment and focused burrow protocol surveys, a Crotch's bumble bee (*Bombus crotchii*) (CBB) habitat assessment, and a jurisdictional delineation which included an assessment for an MSHCP riparian/riverine and vernal pool resources.

HELIX searched the California Department of Fish and Wildlife (CDFW) California Natural Diversity Database (CNDDB) (CDFW 2024) and the California Native Plant Society's Inventory of Rare and Endangered Plants (CNPS 2024) to identify special-status biological resources from the region. The CNDDB and the Inventory of Rare and Endangered Plants were searched based on the U.S. Geological Survey 7.5-minute topographic quadrangle map for El Casco and Yucaipa where the project site is located. Prior to beginning fieldwork, aerial photographs (1 inch = 125 feet), topographic maps (1 inch = 125 feet), U.S. Geological Survey quadrangle maps, and National Wetlands Inventory maps (USFWS 2024) were reviewed to assist in determining the location of potential jurisdictional waters on the project site.

The Assessment fieldwork was conducted by HELIX on November 6, 2020, and on December 21, 2020, on Parcel 3 only, to characterize the existing environmental conditions, vegetation communities/land covers, and any plants or wildlife (including their habitats) that could be impacted during the Sandalwood Travel Center development project implementation (i.e., construction and operation). On April 22, 2022, HELIX conducted biological assessment fieldwork on the entire project site. The general biological assessment included vegetation mapping, during which HELIX compiled a general inventory of plant and wildlife species and determined the potential for special-status species to occur specifically within the project site.

The project site is located within two MSHCP-designated survey areas, specifically for narrow endemic plant species and for BUOW. As such, the general biological assessment conducted on November 6, 2020 also included a habitat suitability assessment for narrow endemic plant species and BUOW. The biologist walked the survey area slowly and methodically, closely checking habitat for suitable burrows and owl diagnostic sign (e.g., molted feathers, pellets/castings, or whitewash at or near a burrow entrance). Inaccessible areas of the survey area were visually assessed using binoculars. Per the appropriate survey protocol, MSHCP Burrowing Owl Survey Instructions (RCA 2006), because suitable BUOW habitat was found on the proposed development site (Parcel 3) during the Step I habitat assessment, HELIX extended the assessment buffer out to 150 meters (approximately 500 feet). Furthermore, because suitable habitat was found, HELIX also conducted a Step II-A focused burrow survey on the proposed development site. Similarly, on April 22, 2022, an assessment conducted separately on the northern parcels also included a habitat suitability assessment for narrow endemic plant species and BUOW (Step I), as well as a Step II-A focused burrow survey for BUOW. The BUOW habitat assessment was updated for the entire project site on July 24, 2024, and because one suitable burrow and one surrogate burrow were detected, RCA required that Step II-B focused BUOW surveys be conducted throughout the project site. The first Step II-B focused BUOW survey was conducted concurrently with the Step I habitat assessment and Step II-A burrow survey. Three additional focused BUOW surveys (for a total of four surveys) were conducted. The focused burrow survey and the four BUOW

surveys were conducted by HELIX biologists between July 24 and August 7, 2024, and followed the appropriate methodology (RCA 2006). The BUOW survey results are detailed below and in Appendix B.

HELIX conducted a CBB assessment on July 13, 2024, throughout the entire project site (all three parcels and off-site areas) to determine whether suitable CBB habitat is present. In accordance with CDFW's Survey Considerations for California Endangered Species Act Candidate Bumble Bee Species (CDFW 2023), the biologist mapped habitat alliances within the project site. Habitat alliances were classified following the Manual of California Vegetation (Sawyer et al. 2009). The biologist recorded the estimated absolute percent cover for individual species for each habitat alliance. In addition to foraging resources, potential nesting habitat (e.g., small mammal burrows, loose soil, bunch grasses, thatch, brush piles, old bird nests, and dead trees) were noted if observed during the assessment. The CBB habitat assessment findings are detailed below and in Appendix B.

On May 12, 2021, HELIX conducted a jurisdictional waters assessment on the entire project site on April 22, 2022. Existing conditions were also re-verified during the 2024 BUOW surveys and CBB habitat suitability assessment. The delineation was conducted to identify jurisdictional waters potentially subject to U.S. Army Corps of Engineers (USACE) jurisdiction pursuant to Section 404 of the Clean Water Act (CWA); Regional Water Quality Control Board (RWQCB) jurisdiction pursuant to Section 401 of the CWA and/or state Porter–Cologne Water Quality Control Act; and streambed habitats potentially subject to CDFW jurisdiction pursuant to Sections 1600 et seq. of the California Fish and Game Code. The jurisdictional waters assessment also focused on assessing the project site for MSHCP Riparian/Riverine Areas and vernal pools.

The project site has been used for agriculture since at least 1938 (Historic Aerials 1958). Under prior environmental review and regulatory permits (MND for Rough Grading Permit for a 10-Acre Parcel Located North of Sandalwood Drive on 7th Street (July 2007) State Clearinghouse No. 2007031152), the project site was graded in 2009 for the purpose of implementing a drainage improvement project, but no other work has occurred within the project site since 2009. Because the prior project (2009) received Section 1602 approval from CDFW by Operation of Law, mitigation requirements for impacts to CDFW jurisdiction were likely described in the Notification of Lake or Streambed Alteration. The original landowner is deceased, and the current landowner and CDFW are unable to locate the Notification of Lake or Streambed Alteration to verify the required mitigation for the prior project. Additionally, documentation of mitigation implementation is unable to be located. The prior project also impacted drainages that met the definition of MSHCP Riparian/Riverine Areas; therefore, a Determination of Biologically Equivalent or Superior Preservation (DBESP) and appropriate mitigation would have also been required. A DBESP cannot be located by the landowner, RCA, or the Wildlife Agencies (i.e., CDFW and U.S. Fish and Wildlife Service [USFWS]). Given that mitigation requirements and implementation cannot be verified, the development applicant has coordinated with the landowner, the Wildlife Agencies, and the Rivers and Lands Conservancy and has developed a mitigation approach to compensate for previous project impacts to CDFW jurisdiction and MSHCP Riparian/Riverine Areas. Based on this coordination, an after-the-fact DBESP has also been prepared to demonstrate that the proposed mitigation provides equivalent or superior preservation for prior impacts that occurred on the project site. No mitigation was required by USACE in the Section 404 Nationwide Permit, and RWQCB determined no action would be taken in the Section 401 Water Quality Certification.

The project site has minimal vegetative cover and is dominated by disturbed habitat, specifically wild oats and annual brome grasslands. The site had been disked on a regular basis prior to and during the timeframes of the 2020 fieldwork, but vegetation had regrown by the time the April 2022 fieldwork occurred. The eastern project boundary consists of non-native grassland dominated by slender oat (*Avena barbata*). A small area of ornamental trees was noted in the northeastern corner of the project site, which consisted of Peruvian peppertrees (*Schinus molle*). The western boundary of the project site consists of paved right-of-way associated with 7th Street. Conditions

documented in 2022 were consistent with those observed in 2024. The topography within the project site is mostly flat, with elevations ranging from approximately 2,393 feet (729 meters) above mean sea level near the northwestern portion of the project site to approximately 2,387 feet (728 meters) above mean sea level near the southwestern corner.

A map of the landscape and vegetation communities is depicted on Figure 6, Impacts to Vegetation and Land Cover Types. No special-status plant communities or wetlands or riparian vegetation were observed within the project site. The vegetation is typical for urbanized areas in the region. A total of 29 plant species (9 native and 20 non-native) were recorded within the project site (Appendix B). The dominant presence of non-native species is indicative of the high degree of disturbance as a result of historical and current use of the site.

Wildlife species observed during the field survey were limited to 18 bird species (see Appendix B). These species are typical in an urban and developed setting. Other species expected to occur include coyote (*Canis latrans*), desert cottontail (*Sylvilagus audubonii*), raccoon (*Procyon lotor*), and western fence lizard (*Sceloporus occidentalis*).

3.4.2 MSHCP Consistency Analysis

An MSHCP Consistency Analysis for the Sandalwood Travel Center site was prepared by HELIX in March 2023 and updated in January 2026. The MSHCP Consistency Analysis provides the City, the RCA, CDFW, and USFWS with the information necessary to determine that the proposed project is consistent with the Western Riverside County MSHCP (County of Riverside 2003). Because the proposed project site is located within MSHCP Criteria Cells, the project is subject to the City's Habitat Evaluation and Acquisition Negotiation Strategy process, followed by the JPR process with RCA, CDFW, and USFWS. Although there is no development proposed on the northern parcels, the RCA required that the parcels at least be assessed to ensure that no resources were present that could be affected by development of Parcel 3. The JPR process is currently ongoing. Changes that may come out of the JPR process will be incorporated into the Final MND and prior to project approval. For additional details regarding the MSHCP, refer to Section 3.4.2(f).

Biological Resources Threshold Responses

a) ***Would the project have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?***

Less Than Significant Impact with Mitigation Incorporated. Special-status biological resources present or potentially present on the project site (Parcel 3) were identified through a literature search prior to the field surveys conducted in November and December 2020, included in Appendix B. The literature search also covered the northern parcels, which were later assessed in the field in April 2022. Conditions documented in 2022 were consistent with those observed in 2024. The literature search concluded that there are no special-status plant or wildlife species with a moderate or high potential to occur.

None of the 20 rare plant species previously recorded (per literature and database searches) within the vicinity of the project site were considered to have potential to occur on the project site based on geographic range, elevation range, and/or lack of suitable habitat (Appendix B). Therefore, no impacts to rare plant species would occur.

Of the 28 sensitive animal species recorded within the vicinity of the project site, 23 species were considered to have no potential to occur within the project site due to the lack of suitable habitat. Based on the habitat assessment, HELIX determined there is no suitable CBB habitat within the project site; therefore, this species does not have a potential to occur. There is a limited quantity and diversity of nectar resources on the project site, a lack of known occurrences in adjacent areas, and limited potential nesting habitat and it was concluded that surveys were not warranted. No significant impacts to these 24 sensitive wildlife species are anticipated. However, 4 of the 28 sensitive special-status wildlife species in the vicinity of the project site have a low potential to occur on the project site, as shown in Table 9. For the reasons described in Table 9, these species are not expected to occur on or adjacent to the project site. With the payment of the MSHCP fee, no additional mitigation is required for potential impacts to these 5 species.

Table 9. Special-Status Wildlife Species Potential to Occur

Scientific Name Common Name	Status [a, b, c]	Habitat	Potential to Occur[d]
Buteo swainsoni Swainson's hawk	ST; MSHCP Covered Species	Breeds in open grassland with scattered trees or groves within agricultural/ ranchlands. Forages for small mammals, reptiles, birds, and insects in adjacent grassland and agricultural fields.	**Low**. This species is not known to nest in southern California, except for populations in the Antelope Valley and Mojave Desert. Undeveloped land on the project site could provide low-quality foraging habitat, although only one mammal burrow was observed on the project site. This species was recorded in eBird in 2017, approximately 2.7 miles to the northeast of the project site.
Elanus leucurus white-tailed kite	SFP; MSHCP Covered Species	Nests in trees with dense canopies within open grasslands, woodlands, and marshes. Forages for small mammals within lightly grazed/ungrazed pastures and grasslands.	**Low**. The project site supports a few Peruvian pepper trees (*Schinus molle*) that could be used for nesting habitat, although this is considered low-quality nesting habitat because these trees are directly adjacent to I-10. Undeveloped land on the project site could provide low-quality foraging habitat, although only one mammal burrow was observed on the project site. This species was recorded in eBird in 2018, approximately 0.4 miles to the southeast of the project site.
Lanius ludovicianus loggerhead shrike	SSC; MSHCP Covered Species	Nests in dense, often thorny, shrubs or trees. Will nest within brush piles or tumble weeds when trees or shrubs are not present. Feeds on a wide variety of animals, including arthropods, amphibians, reptiles, small mammals, and small songbirds within	**Low**. The project site does not support suitable nesting habitat. Undeveloped land on the project site could provide low-quality foraging habitat. This species was recorded in eBird in 2015, approximately 2.3 miles to the southwest of the project site.

Table 9. Special-Status Wildlife Species Potential to Occur

Scientific Name Common Name	Status [a, b, c]	Habitat	Potential to Occur[d]
		open habitats such as grasslands, agricultural fields, pastures, shrublands, and ruderal areas with adequate perching locations.	
Bombus crotchii Crotch's bumble bee	CESA Candidate	Coastal California east to the Sierra–Cascade crest and south into Mexico and is associated with grassland and scrub habitats near the coast. Nests are underground and commonly consist of abandoned rodent nests.	**None**. Based on the limited quantity and diversity of nectar resources on the project site, a lack of known occurrences within adjacent areas, and limited potential nesting habitat, the project site does not contain suitable habitat.
Athene cunicularia burrowing owl	CESA Candidate; MSHCP Covered Species[c]	Typical habitat is grasslands, open scrublands, agricultural fields, and other areas where there are ground squirrel burrows or other areas in which to burrow.	**Absent.** The project site supports suitable habitat, including one suitable burrow and one surrogate burrow. Focused surveys were conducted during the 2024 breeding season, and results were negative.
Perognathus longimembris brevinasus Los Angeles pocket mouse[e]	SSC; MSHCP Covered Species[c]	Sandy, gravelly, or stony soils within coastal scrub, alluvial sage scrub, and grassland habitats.	**Low**. The project site supports a small area of non-native grassland along the eastern Parcel 3 boundary. Only one small mammal burrow was observed on the project site. This species was recorded in CNDDB in 2016, approximately 4.9 miles to the southeast of the project site.

Source: Appendix B.
Notes:

[a] Sensitive species reported within the El Casco and Yucaipa quadrangles based on a database search conducted on CNDDB.
[b] SFP – State Fully Protected; SSC – State Species of Special Concern; CESA Candidate – California Endangered Species Act Candidate for listing as Threatened or Endangered; MSHCP Conditionally Covered Species (c) surveys may be required for species within locations shown on survey maps.
[c] BCC = USFWS Bird of Conservation Concern; FE = Federally Listed–Endangered; ST = State Listed – Threatened
[d] Low potential to occur is assessed as follows: Suitable habitat is present on the project site but of low quality and/or small extent. The species has not been recorded recently on or near the project site. Although the species was not observed during surveys for the current project, the species cannot be excluded with certainty.
[e] Los Angeles pocket mouse is a conditionally covered species, and surveys are required for those projects within a Mammal Species Survey Area. However, because the project site is not located within a survey area, surveys are not required for this species.

Although the project site supports a small area of non-native grassland along the eastern Parcel 3 boundary, the project site is not located within an MSHCP-designated survey area for mammals. Therefore, no further action regarding Los Angeles pocket mouse, including focused surveys, is warranted or required.

Focused surveys for BUOW were conducted in accordance with the accepted survey protocol (RCA 2006). Because one suitable burrow and one surrogate burrow were observed within the survey area, three additional focused BUOW surveys (for a total of four surveys) were conducted in July and August 2024. No BUOW or other sign was observed within the survey area, and the BUOW was determined to be absent from the project site. Although BUOW does not currently occupy the project site, a pre-construction survey is still required because of the presence of suitable habitat conditions and to address any potential of BUOW moving into the project site prior to construction. Implementation of **Mitigation Measure (MM) BIO-1** (Pre-Construction Burrowing Owl) within 30 days prior to ground disturbance pursuant to the MSHCP is required to confirm that conditions have not changed prior to construction.

In addition, there is a potential for birds to nest on the project site. All migratory bird species that are native to the United States or its territories are protected under the federal Migratory Bird Treaty Act (MBTA), as amended under the Migratory Bird Treaty Reform Act of 2004 (70 FR 12710). The MBTA is generally protective of migratory birds, but does not actually stipulate the type of protection required. In common practice, the MBTA is used to place restrictions on the disturbance of active bird nests during the nesting season. Development of the proposed project could disturb or destroy active migratory bird nests, including eggs and young. Disturbance to, or destruction of, migratory bird eggs, young, or adults is in violation of the MBTA, and is considered a potentially significant impact. Similarly, nesting birds are protected under the California Fish and Game Code. Although suitable habitat for nesting birds on the project site is limited, herbaceous ground cover and trees located in the northeastern portion of the project site could provide habitat for protected nesting bird species. **MM BIO-2** (Nesting Birds) would be implemented to ensure that the project complies with MBTA and California Fish and Game Code regulations.

Implementation of these measures would ensure that impacts to any species with a potential to occur on the project site, including nesting birds or BUOW that could potentially move onto the project site, are less than significant.

Mitigation Measures

MM BIO-1 Pre-Construction Burrowing Owl. Prior to the commencement of ground-disturbing activities (e.g., earthwork, vegetation clearing, grubbing, site watering, equipment and vehicle staging) on the project site, a pre-construction survey for burrowing owl (BUOW) shall be conducted by a qualified biologist within 30 days prior to ground disturbance to determine the presence of BUOW. If the pre-construction survey is negative and burrowing owl is confirmed absent, then ground-disturbing activities shall be allowed to commence, and no further action is required. If construction is inactive for more than 30 days, a pre-construction survey must be conducted again to confirm BUOW has not colonized the project site since it was last disturbed.

If BUOW is observed during the pre-construction survey, the project proponent shall immediately notify the Regional Conservation Authority (RCA) and the Wildlife Agencies (i.e., collectively, California Department of Fish and Wildlife and U.S. Fish and Wildlife Service). All active burrows and owls shall be avoided with, at a minimum, establishment of an appropriately sized exclusion buffer, under the oversight of a qualified biologist, to ensure there would be no direct or indirect impacts to BUOW. The project proponent shall also coordinate with the RCA and the Wildlife Agencies to determine whether preparation of a BUOW Protection and Relocation Plan is necessary.

MM BIO-2 Nesting Birds. Construction activities (e.g., earthwork, vegetation clearing, grubbing, site watering, and equipment and vehicle staging) at the Sandalwood Travel Center development project site shall occur outside of the general bird nesting season for migratory birds. The general nesting season is February 15 through August 31 for songbirds and January 15 through August 31 for raptors.

If construction activities (e.g., earthwork, vegetation clearing, grubbing, site watering, and equipment and vehicle staging) must occur during the general bird nesting season for migratory songbirds (February 15 through August 31) and raptors (January 15 through August 31), a qualified biologist shall conduct a pre-construction survey of potential nesting habitat to confirm the absence of active nests belonging to migratory birds and raptors afforded protection under the Migratory Bird Treaty Act and California Fish and Game Code. The pre-construction survey shall be performed no more than seven days prior to the commencement of construction activities. If construction is inactive for more than seven days, an additional survey shall be conducted. The results of the pre-construction survey shall be documented by the qualified biologist.

If the qualified biologist determines that no active migratory bird or raptor nests occur, the activities shall be allowed to proceed without any further action. If the qualified biologist determines that an active nest is present, an exclusion buffer shall be established. No impacts within the 300-foot (500-foot for raptors) exclusion buffer shall occur until the young have fledged the nest and the qualified biologist has confirmed the nest is no longer active. The biological monitor may modify (decrease or increase) the buffer size and/or propose other recommendations in order to ensure that nesting birds are not disturbed.

b) Would the project have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?

No Impact. The Sandalwood Travel Center (Parcel 3) would permanently impact approximately 4.5 acres and temporarily impact 0.4 acres (Table 10, Impacts to Vegetation and Land Uses; Figure 6, Impacts to Vegetation and Land Cover Types). None of these vegetation communities observed on the project site is characterized as sensitive pursuant to local, regional, state, or federal regulations. Furthermore, no development is proposed on the northern parcels of the project site. In addition, there is no riparian vegetation present in any of the three parcels. Therefore, no impacts to sensitive vegetation communities would occur, and no mitigation is warranted.

Table 10. Impacts to Vegetation and Land Uses

Manual of California Vegetation/Oberbauer	Permanent Impacts (Acres)[1]			Temporary Impacts (Acres)[1]		
	On-Site	Off-Site	Total	On-Site	Off-Site	Total
Wild Oats and Annual Brome Grassland	3.7	0.3	**4.0**	0.1	0.3	**0.4**
Developed	0.0	0.2	**0.2**	0.0	<0.1[2]	**<0.1**
Disturbed	0.0	0.2	**0.2**	0.0	<0.1[3]	**<0.1**

Table 10. Impacts to Vegetation and Land Uses

Manual of California Vegetation/Oberbauer	Permanent Impacts (Acres)[1]			Temporary Impacts (Acres)[1]		
	On-Site	Off-Site	Total	On-Site	Off-Site	Total
Pepper Tree Grove	0.1	0.0	**0.1**	0.0	<0.1[4]	**0.0**
Total	**3.8**	**0.7**	**4.5**	**0.1**	**0.3**	**0.4**

Source: Appendix B.
Notes: Acreages may vary from project description information provided above because they are based on field measurements rather than CAD or civil survey data.
1 Acreages are rounded to the nearest 0.10 acres.
2 Actual acreage is 0.01 acres.
3 Actual acreage is 0.01 acres.
4 Actual acreage is 0.03 acres.

c) Would the project have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?

Less Than Significant Impact with Mitigation Incorporated. For the currently proposed project, a jurisdictional assessment was conducted by HELIX on May 12, 2021, on Parcel 3 and on April 22, 2022, on the northern parcels. Existing conditions were also reverified during the 2024 BUOW surveys and CBB habitat suitability assessment. No jurisdictional waters regulated by the USACE, RWQCB, or CDFW or Riparian/Riverine Areas pursuant to the MSHCP occur within the project boundary. Storm drain inlets are in the northern and central portions of the project site, and function to accept sheet flow from 7th Street; 7th Street is a paved road and bounds the project site to the west. No jurisdictional indicators were observed associated with these inlets. Photographs of the existing storm drain inlets on the project site are provided in the General Biological Resources Assessment (Appendix B).

No federally defined waters of the United States or state occur within the project site. This includes the absence of federally defined wetlands and other waters (e.g., drainages) and state-defined waters (e.g., streams and riparian extent). The project would be subject to the typical restrictions (e.g., best management practices [BMPs]) and requirements that address erosion and runoff, including those of the CWA and National Pollutant Discharge Elimination System (NPDES) permit. With implementation of BMPs and permit conditions, no indirect impacts would occur.

Although no state or federal wetlands or other regulated waters or MSHCP Riparian/Riverine Areas are currently present on the project site, it should be noted that fieldwork conducted prior to the 2009 grading determined that the site historically supported three ephemeral streambeds, also classified as MSHCP Riparian/Riverine Areas, specifically one stream in the northern portion of the project site (Stream) and two drainages (Drainage 1 and 2). These areas totaled 1.12 acres and were filled and replaced with a sub-surface storm drain system in 2009. Because mitigation requirements and implementation cannot be verified, the development applicant has coordinated with the landowner, the Wildlife Agencies, and the Rivers and Lands Conservancy to identify an approach to compensate for prior project impacts to MSHCP Riparian/Riverine Areas. A DBESP has been prepared to address after-the-fact consistency of the prior project (2009) with MSHCP Section 6.1.2 and is also part of the currently ongoing JPR process. **MM BIO-3** requires that the project ensure that the previously required mitigation is implemented accordingly, as well as being reviewed and approved by RCA and the Wildlife Agencies as part of the JPR process. Therefore, this impact would be less than significant with mitigation incorporated.

Mitigation Measures

MM BIO-3 CDFW Jurisdiction and MSHCP Riparian/Riverine Areas. In order for the project to fully demonstrate consistency with the Multiple Species Habitat Conservation Plan, and prior to preparation of the Final Mitigated Negative Declaration (MND) document, the Joint Project Review (JPR) process with the City of Calimesa, Regional Conservation Authority (RCA), and Wildlife Agencies (i.e., collectively, California Department of Fish and Wildlife and U.S. Fish and Wildlife Service) shall be completed, including their review and approval of the Determination of Biologically Equivalent of Superior Preservation (DBESP) Report.

The JPR process is ongoing, and the final results of the JPR process, including relevant comments from the RCA and the Wildlife Agencies, shall be described in the Final MND, as applicable. Any changes to the proposed compensatory mitigation approach detailed in the DBESP, as required by RCA and Wildlife Agency comments, shall also be updated in the Final MND.

d) Would the project interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?

Less Than Significant Impact. Wildlife movement corridors, also referred to as dispersal corridors or landscape linkages, are generally defined as linear features along which animals can travel from one habitat or resource area to another and may also provide live-in habitat conditions.

The project site is not located within any designated wildlife movement corridors, nor does it encompass any features that would support fish or native wildlife nursery site. Furthermore, the site is not directly connected to any movement corridors or large blocks of habitat. The project site consists mostly of undeveloped land dominated by disturbed habitat with sparse vegetation. The proposed project site is surrounded by existing or approved development on all sides.

In addition, the project site is not identified by the MSHCP as being part of a local or regional corridor or designated Linkage. The nearest Linkage to the project site is Proposed Constrained Linkage (PCL) 23, which is approximately 0.25 miles to the south of the project site. The project site does not directly connect to PCL 23, and is separated by Sandalwood Drive and an existing commercial development. Some wildlife species may use the project site for local foraging and/or nesting; however, use of the project site by wildlife is restricted due to limited vegetative cover and adjacent disturbance from existing human development (Appendix B). Therefore, impacts related to interference with wildlife movement, established wildlife corridors, or use of native wildlife nursery sites would be less than significant.

e) Would the project conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

No Impact. The project site does not support any oak trees or other trees protected by City policies or ordinances. Therefore, the project would not conflict with Chapter 18.80, Tree Preservation, of the City's Municipal Code and no impact would occur.

f) Would the project conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?

Less Than Significant Impact with Mitigation Incorporated. The project site is located within Subunit 2 (Badlands/San Bernardino National Forest) in the north-central portion of the Pass Area Plan. The following discussion provides information demonstrating that there are no conflicts with the MSHCP. Note that in order for the Sandalwood Travel Center development project to participate in the MSHCP, the development applicant is required to pay a fee to finance the acquisition of conservation areas that provide habitat for MSHCP covered species. The fee must be paid to the City prior to the issuance of a building permit, and the City transfers MSHCP fees to the RCA.

Given that the proposed project is located within the MSHCP Criteria Area, the project is required to undergo a Habitat Assessment and Negotiation Strategy to determine what portion (if any) of the project site must be included as part of the MSHCP Conservation Area in order to meet the Cell conservation goals. An MSHCP Consistency Analysis Report was prepared and submitted to the City (August 2022), along with a Habitat Assessment and Negotiation Strategy application, followed by the City initiating the JPR process with the RCA in September 2022. The development applicant is working to respond to JPR comments from RCA, which includes submitting an after-the-fact DBESP. After RCA issues their consistency findings, the Wildlife Agencies (i.e., CDFW and USFWS) will perform their own joint review, including review of the DBESP, and provide their comments or concurrence with RCA's findings. Per the City's direction, the JPR processing, including RCA and Wildlife Agency approval of the DBESP, will be completed before the Final MND is prepared.

Reserve Assembly

The MSHCP Plan Area is divided into 16 Area Plans, which are further subdivided into Area Plan subunits. The project site is located within Subunit 2 (Badlands/San Bernardino National Forest) in the north-central portion of the Pass Area Plan. The northern, northeastern, and western portions of the project site fall within the northeastern corner of Cell 323, and the southern and southeastern portions of the project site fall within the west-central portion of Cell 326. Because the project site does not encompass areas described for conservation, it is anticipated that the project will not conflict with the conservation goals described for Cells 323 and 326.

MSHCP Section 6.1.2 Riparian/Riverine Areas and Vernal Pools

The identification of MSHCP Riparian/Riverine resources is based on the potential for the habitat to support, or be a tributary to habitat that supports, Riparian/Riverine Covered Species. Riparian/Riverine Covered Species are identified in MSHCP Section 6.1.2. The MSHCP defines Riparian/Riverine habitat as "lands which contain Habitat dominated by trees, shrubs, or emergent mosses and lichens, which occur close to, or which depend upon, soil moisture from a nearby fresh water source; or areas with freshwater flow during all or a portion of the year." The MSHCP defines Vernal Pools as "seasonal wetlands that occur in depression areas that have wetlands indicators of all three parameters (soils, vegetation, and hydrology) during the wetter portion of the growing season but normally lack wetlands indicators of hydrology and/or vegetation during the drier portion of the growing season." Artificially created wetlands, except for those created intentionally to provide habitat or resulting from the creation of open waters or alteration of natural stream courses, are not considered MSHCP Vernal Pools.

Based on prior fieldwork (pre-2009), the Sandalwood Travel Center Project site historically supported three Riparian/Riverine Areas, specifically one stream in the northern portion of the project site (Stream) and two drainages (Drainage 1 and 2) in the center of the site. These areas totaled 1.12 acres and were filled and replaced with a sub-surface storm drain system in 2009. Refer to discussion in Section 3.4(c) regarding how these previous impacts to MSHCP Riparian/Riverine Areas have been retroactively addressed.

In accordance with the MSHCP, a Riparian/Riverine and Vernal Pool habitat assessment was conducted for the project site by HELIX on May 12, 2021, and for the entire project site on April 22, 2022. No Riparian/Riverine Areas or Vernal Pools were observed within the project site boundary. Storm drain inlets are in the northern and central portions of the project site, which function to accept sheet flow from 7th Street; 7th Street is a paved road that bounds the project site to the west. Neither Riparian/Riverine Areas nor Vernal Pools were observed associated with these inlets. No depressional areas capable of supporting fairy shrimp species were observed within the project site. As a result, the project site does not support Riparian/Riverine Areas or Vernal Pools or suitable habitat for associated species, as defined by the MSHCP. The project site does not support suitable habitat for MSHCP riparian/riverine bird species, including least Bell's vireo (*Vireo bellii pusillus*), southwestern willow flycatcher (*Empidonax traillii extimus*), and yellow-billed cuckoo (*Coccyzus americanus*). Therefore, focused surveys were not required. No evidence of hydric soils (e.g., mud cracks), vernal pool/wetland vegetation, or vernal pool/wetland hydrology were observed on the project site during the 2020 or 2021 site visits or during the 2022 or 2024 site visits. The northern parcel photographs (Photographs 5 through 8 in Appendix D of the Biological Resources Assessment [Appendix B of this IS/MND]) were taken immediately after a rain event. The soils on the project site do not consist of clay or silt and are dominated by well-drained loam and sandy loam. Because there were no signs of hydric soils, vernal pool/wetland vegetation, or vernal pool/wetland hydrology observed during the habitat assessment, suitable fairy shrimp habitat is presumed absent from the project site and focused surveys were not warranted. Therefore, the proposed development project will not directly impact Riparian/Riverine Areas, vernal pools, or associated species, and does not conflict with MSHCP Section 6.1.2.

MSHCP Section 6.1.3 Narrow Endemic Plant Species

The entire project site (all three parcels) is located within a Narrow Endemic Plant Species Survey Area (NEPSSA), specifically NEPSSA 8, which requires a habitat assessment for Yucaipa onion (*Allium marvinii*) and many-stemmed dudleya (*Dudleya multicaulis*). These species are generally associated with clay soils within upland habitats. Many-stemmed dudleya can also occur on sandstone outcrops. A habitat assessment for these two species was conducted on the project site during a general biological survey on November 6, 2020, and a habitat assessment for these two species was conducted on the northern parcels during a general biological survey on April 22, 2022. The project site does not support habitat for Yucaipa onion or many-stemmed dudleya due to the absence of clay soil and sandstone outcrops. The project site mostly supports loamy and sandy soil types. The project site is also located below the elevation range of Yucaipa onion. Given that the project site does not support suitable habitat for either species, focused surveys for narrow endemic plant species were not warranted, and the proposed project would not conflict with Section 6.1.3 of the MSHCP.

MSHCP Section 6.1.4 Urban/Wildland Interface Guidelines

Proposed developments adjacent to MSHCP Conservation Areas may create edge effects that can impact conserved biological resources. The MSHCP provides guidelines that address potential indirect effects from

proposed developments that are in proximity to MSHCP Conservation Areas. These guidelines include measures addressing the quantity and quality of runoff generated by the development (i.e., drainage and toxics), night lighting, noise, non-native invasive plant species, barriers to humans and animal predators, and grading/land development encroachment. The project site is located within Cells 323 and 326, but not within the portions of the Cells described for conservation or located adjacent to existing or described MSHCP Conservation Areas. PCL-23 is located approximately 0.25 miles south of the project site. Given that the proposed development is separated from PLC-23 by Sandalwood Drive and existing commercial development to the south, as well as surrounded by existing or approved development on all other sides, MSHCP Section 6.1.4 does not technically apply to the proposed project. Nevertheless, the development project is committed to following Urban/Wildland Interface Guidelines and as standard practice, the development applicant would implement the following BMPs as part of the proposed project. The proposed project does not conflict with MSHCP Section 6.1.4.

Drainage

The project site does not support any drainages. However, the proposed development project would incorporate BMPs to avoid the discharge of untreated surface runoff that could in any way make its way to any downstream waters. BMPs would include those required for construction pursuant to the State Water Resources Control Board General Construction Stormwater Permit and those required post-construction pursuant to the NPDES and Municipal Storm Drain requirements. The development project has been designed to prevent the release of toxins, chemicals, petroleum products, exotic plant materials, or other elements that might degrade or harm biological resources or ecosystem processes downstream from the project. In addition, post-construction BMPs are intended to help ensure that post-project hydrologic conditions remain consistent with pre-project conditions, thereby minimizing the potential for downstream erosion and/or sedimentation that could otherwise result from implementation of the proposed project.

Toxics

Land uses that use chemicals or generate bio-products that are potentially toxic or may adversely affect wildlife species, habitat, or water quality shall incorporate BMPs to ensure that the application of such chemicals does not result in discharge into downstream waters. As standard practice, BMPs such as those implemented to address drainage issues would also result in avoidance of potential impacts relative to toxics.

Lighting

Temporary construction lighting and ambient lighting from any proposed development project is required to be selectively placed, directed, and shielded away from any MSHCP Conservation Areas. The proposed project site is not located near enough to PCL-23 to the south to cause lighting-related impacts.

Noise

As standard practice, wildlife would not be subject to noise that would exceed residential noise standards, and the proposed project site is not located near enough to PCL-23 to the south to cause noise-related impacts. Nevertheless, temporary short-term construction-related noise impacts would be reduced by the construction contractor implementing a number of BMPs, including the following:

- All construction activities will occur during the daylight hours. The construction contractor shall limit all construction-related activities that would result in high noise levels according to the construction hours to be determined by the City.

- During all excavation and grading, the construction contractors shall equip all construction equipment, fixed or mobile, with properly operating and maintained mufflers, consistent with manufacturers' standards to reduce construction equipment noise to the maximum extent possible. The construction contractor shall place all stationary construction equipment so that emitted noise is directed away from sensitive receptors nearest to the project site.
- The construction contractor shall stage equipment in areas that will create the greatest distance between construction-related noise sources and noise sensitive receptors nearest to the project site during all construction.
- The construction contractor shall limit haul truck deliveries to the same hours specified for construction equipment. To the extent feasible, haul routes shall not pass through sensitive land uses or residential dwellings.

Invasives

Although the proposed project is located 0.25 miles from the nearest Conservation Area (PCL-23), there is still a potential for wind and water to transfer invasive plant material to these areas. The development project would not use invasive plants for erosion control, landscaping, wind rows, or other purposes. Specifically, no species listed in MSHCP Table 6-2, Plants that Should Be Avoided Adjacent to the MSHCP Conservation Area, would be used in the project landscape plans (including not in the hydroseed mix used for interim erosion control), as stated in **MM BIO-4**.

Barriers

Because the project site is not located directly adjacent to the MSHCP Conservation Area, barriers and related signage are not necessary.

Grading/Land Development

The project site is not adjacent to an MSHCP Conservation Area. All grading would occur within the proposed project footprint and would not extend into any MSHCP Conservation Area.

MSHCP Section 6.3.2 Additional Surveys

The project site is not located within a Criteria Area Species Survey Area for plant species nor located within an amphibian or mammal survey area. As such, no further action, including a habitat suitability assessment or focused surveys are required for these species. No impacts to Criteria Area Species Survey Area plant species or sensitive amphibians or mammal species are anticipated.

As discussed above, although BUOW does not currently occupy the project site, a pre-construction survey is still required because of the presence of suitable habitat conditions and to address any potential of BUOW moving into the project site prior to construction. Implementation of **MM BIO-1** within 30 days prior to ground disturbance pursuant to the MSHCP is required to confirm that conditions have not changed prior to construction.

The proposed project does not conflict with MSHCP Section 6.3.2.

Other Applicable Plans

The project site is not subject to any other adopted habitat conservation plan, natural community conservation plan, or other approved local, regional, or state habitat conservation plan. The project site is not located within the Stephens' Kangaroo Rat (SKR) Habitat Conservation Plan, including not located within any of the SKR Habitat Conservation Plan Core Reserves (Riverside County Habitat Conservation Agency 1996). Therefore, the development project is not required to pay an SKR mitigation fee for incidental take authorization under the SKR Habitat Conservation Plan. The need for SKR take is not anticipated; however, if needed, SKR is covered under the MSHCP.

In addition to **MM BIO-1**, **MM BIO-2**, and **MM BIO-3** discussed above, implementation of the following measure would ensure that any conflicts with the MSHCP would be less than significant:

MM BIO-4 MSHCP Landscape Plan Restrictions. In accordance with MSHCP Section 6.1.4, no species listed in Table 6-2, Plants that Should be Avoided Adjacent to the MSHCP Conservation Area, shall be used in the project landscape plans (including hydroseed mix used for interim erosion control).

3.5 Cultural Resources

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
V. CULTURAL RESOURCES – Would the project:				
a) Cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?	☐	☐	☒	☐
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?	☐	☒	☐	☐
c) Disturb any human remains, including those interred outside of dedicated cemeteries?	☐	☒	☐	☐

TPM 38215 is a Finance Map only, with no reasonably foreseeable development on the northern parcels. There would be no physical environmental changes on the northern parcels; therefore, there would be no impacts relative to cultural resources on the northern parcels. Any future development proposed on the northern parcels would be subject to a separate cultural resources analysis and CEQA process as determined by the City. The following analysis focuses only on the Sandalwood Travel Center development on Parcel 3, based, in part, on the Cultural Resources Survey Report, included as Appendix C to this IS/MND.

a) Would the project cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?

Less Than Significant Impact. The Eastern Information Center (EIC) at the University of California, Riverside was contacted on December 3, 2020, to assist in the identification of historical resources within the Sandalwood Travel Center development project area and a 0.5-mile radius. Due to COVID-19, the EIC

reduced their staff and changed their record search policies and procedures. As such, not all available data known to EIC may have been provided. The results of the EIC record search were completed and received on March 22, 2021, and include the bibliographic data relating to the resources and previous studies conducted within the EIC search area and copies of any reports or site forms that are located within the EIC search area. However, the map illustrating the location of the resources and previous studies was omitted from the public record search data.

The EIC records indicated that 19 previous cultural resource studies have been conducted within 0.5 miles of the development project site, including one study that overlaps the development project site. Based on the results of the previous studies, six cultural resources have been previously recorded within 0.5 miles of the development project site with one located within the proposed development area (Table 11). There are three wooden utility poles dating from 1940 to 1950 (P-33-015300) that would be undergrounded as a part of the project. Two historic resources, which include a historic isolate consisting of two glass bottle fragments that date from 1880 to 1914 and a scattering of porcelain plate fragments that were too small to be dated (P-33-015299), are located outside of the development footprint but within proximity to the project. The remaining four resources consist of historic sites associated with rural residences, agricultural, and farming activities located west of I-10 to the north and south of the project site.

Table 11. Previously Recorded Cultural Resources Within a 0.5-Mile Radius of the Project Site

Primary (P-33-##)	Trinomial	Resource Age and Type	Resource Description	Recording Events	Proximity to Project Site	NRHP Eligibility
013993	—	Historic Site	Historic site with a water retention feature	2005 (Laurie S. White)	Outside	Not Addressed
013995	—	Historic; Site	Historic site containing a structural foundation	2005 (Laurie S. White)	Outside	Not Addressed
015299	—	Historic; Isolate	Two sun-colored amethyst glass fragments; Dates back from 1880 to 1914	2005 (Koral Ahmet)	Outside	Not Addressed
015300	—	Historic; Site	Nine wooden utility poles	2005 (Koral Ahmet)	Inside	Ineligible
016792	—	Historic; Building	Single-family residence, detached garage, and a wood barn.	2006 (Ben Taniguchi, Laura Gellegos, and Christeen Taniguichi)	Outside	Not Addressed
016793	—	Historic; Building	Two-story vernacular farmhouse, a secondary two-story vernacular barn/residence, a wooden chicken coop, and a corrugated metal barn	2006 (Ben Taniguchi, Laura Gellegos, and Christeen Taniguichi)	Outside	Not Addressed

Note: NRHP = National Register of Historic Places.

In addition to the EIC records search, a pedestrian survey of the project site was conducted on February 16, 2021, by HELIX and a Native American monitor from the Morongo Band of Mission Indians. The previously recorded scattering of porcelain plate fragments (P-33-015299) were not reidentified during the pedestrian survey. The nine wooden utility poles (P-33-015300) were observed. Of the nine poles, only three poles are within the project site and are proposed to be removed in order to underground utility lines. One of the three poles proposed to be removed is of historic age; however, this pole from an individual perspective is not considered a sensitive resource. The pole is a contributor to a historic alignment, but the Cultural Resources Survey Report concluded that the impacts to this pole would not alter the historic alignment. No other cultural resources were observed during the pedestrian survey.

Based on the results of the Cultural Resources Survey Report, development of the proposed project would not cause a substantial adverse change in the significance of a historical resource, and impacts would be less than significant.

b) Would the project cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?

Less Than Significant Impact with Mitigation Incorporated. As described in Section 3.5(a), the records search conducted for the development project identified six cultural resources, all of which pertain to the historic era, have been previously recorded within 0.5 miles of the development project site. However, one of the six historic resources is recorded within the project site, as discussed above. This one site (P-33-015300) does not meet the criterion to be considered a significant archaeological resource pursuant to Section 15064.5.

An archaeological pedestrian survey of the project site was conducted on February 16, 2021, by HELIX and a Native American monitor from the Morongo Band of Mission Indians. During the survey, all portions of the project site were inspected for cultural resources residing on the surface; however the project site was overlain by low-lying vegetation that inhibited ground visibility. During the survey, no cultural material was observed within the project site. The previously recorded scattering of porcelain plate fragments (P-33-015299) that were previously recorded adjacent to the project site were not reidentified during the pedestrian survey. Nine wooden utility poles (P-33-015300) were observed. Of the nine poles, only three poles are within the project site and are proposed to be removed in order to underground utility lines. One of the three poles proposed to be removed is of historic age; however, this pole from an individual perspective is not considered a sensitive resource. The pole is a contributor to a historic alignment, but the Cultural Resources Survey Report concluded that impacts to this pole would not alter the historic alignment. No other cultural resources were observed during the pedestrian survey. Refer to Section 3.18 for information on Tribal cultural resources (TCRs).

Despite the lack of evidence of archaeological resources within the project site, there is still a potential that subsurface ground-disturbing activities during construction could encounter resources present below the surface. In the event that previously unknown archaeological materials are uncovered during construction, potentially significant impacts to archaeological resources may occur. Therefore, **MM CUL-1** is proposed (refer below) and would be implemented to address the potential for encountering previously unknown archaeological materials during construction. With implementation of **MM CUL-1**, impacts to archaeological resources would be less than significant.

Mitigation Measures

MM CUL-1 Prior to issuance of the grading permit, the grading plan notes shall be verified by the City to include the following requirements:

Prior to any vegetation clearing, demolition, or ground disturbance, a qualified archaeologist shall be retained and on-call to respond and address any inadvertent discoveries identified during initial excavation in native soil. Initial excavation is defined as initial construction-related earth moving of sediments from their place of deposition. As it pertains to archaeological monitoring, this definition excludes movement of sediments after they have been initially disturbed or displaced by project-related construction. A qualified archaeological principal investigator, meeting the Secretary of the Interior's Professional Qualification Standards, should oversee and adjust monitoring efforts as needed (increase, decrease, or discontinue monitoring frequency) based on the observed potential for construction activities to encounter cultural deposits or material. The archaeological monitor will be responsible for maintaining daily monitoring logs.

In the event that cultural resources (sites, features, or artifacts) are exposed during construction activities for the project, all construction work occurring within 60 feet of the find shall cease and a qualified archaeologist meeting the Secretary of Interior Standards must be notified immediately to assess the significance of the find and determine whether or not additional study is warranted. Work on the other portions of the project outside the buffered area may continue during this assessment period. In addition, the Yuhaaviatam of San Manuel Nation (formerly known as the San Manuel Band of Mission Indians) Cultural Resources Department shall be contacted, as detailed within MM TCR-1, regarding any pre-contact and/or historic-era finds and be provided information after the archaeologist makes his/her initial assessment of the nature of the find, so as to provide Tribal input with regards to significance and treatment.

If the find is less than significant per the California Environmental Quality Act (CEQA) Guidelines Section 15064.5.5, the archaeologist may simply record the find and allow work to continue. If the discovery proves significant under CEQA Guidelines Section 15064.5 and significant impacts cannot be avoided, the archaeologist shall prepare a cultural resources Monitoring and Treatment Plan, the drafts of which shall be provided to the San Manuel Band of Mission Indians Cultural Resources Department (SMBMI) and the City for review and comment as detailed in MM TCR-1. The City reserves the right to submit the Monitoring and Treatment Plan to appropriate Tribes for their review. Once the City has approved the Monitoring and Treatment Plan, it shall be implemented under the oversight of a qualified archaeological principal investigator. All subsequent finds shall be subject to this Monitoring and Treatment Plan. This Monitoring and Treatment Plan may allow for a Tribal monitor to be present during construction, under the oversight of the qualified archaeologist. Should more than one Tribe request Tribal monitoring, the Tribal monitors will be subject to a rotational schedule with one Tribal monitor on site during any activities that result in subsurface disturbance.

When monitoring is conducted, an archaeological monitoring report shall be prepared within 60 days following completion of ground disturbance and submitted to the City

for review. This report should document compliance with approved mitigation, document the monitoring efforts, and include an appendix with daily monitoring logs. The final report shall be submitted to the South Coastal Information Center (SCIC) and interested Tribes, if requested.

c) Would the project disturb any human remains, including those interred outside of dedicated cemeteries?

Less Than Significant Impact with Mitigation Incorporated. The discovery of human remains is always a possibility during ground disturbance. The State of California Health and Safety Code Section 7050.5, CEQA Guideline 15064.5(e), and California Public Resources Code (PRC) Section 5097.98 mandate the process to be followed in the unlikely event of an accidental discovery of any human remains in a location other than a dedicated cemetery. Specifically, in accordance with PRC 5097.98, the Riverside County Coroner must be notified within 24 hours of the discovery of potential human remains. The Coroner must then determine within two working days of being notified if the remains are subject to his or her authority. If the Coroner recognizes the remains to be Native American, he or she must contact the Native American Heritage Commission (NAHC) by phone within 24 hours, in accordance with PRC 5097.98. The NAHC then designates a Most Likely Descendant (MLD) with respect to the human remains within 48 hours of notification. The MLD would then have the opportunity to recommend to the development applicant means for treating or disposing, with appropriate dignity, the human remains and associated grave goods within 24 hours of notification. This requirement is incorporated as **MM CUL-2**, in order to provide standard procedures in the event that human remains are encountered during proposed construction of the development project. Therefore, impacts to human remains would be less than significant with mitigation incorporated.

Mitigation Measures

MM CUL-2 Prior to issuance of the grading permit, the grading plan notes shall be verified by the City to include the following requirements:

In accordance with Section 7050.5 of the California Health and Safety Code, if potential human remains and funerary objects are found, earth-disturbing work in the vicinity (100-foot [30.5-meter] buffer area) shall immediately halt, and the County Coroner shall be notified of the discovery. The Coroner will provide a determination within 48 hours of notification. No further excavation or disturbance of the identified material, or any area reasonably suspected to overlie additional remains, shall occur until a determination has been made. If the County Coroner determines that the remains are, or are believed to be, Native American, they shall notify the Native American Heritage Commission (NAHC) within 24 hours. In accordance with California Public Resources Code Section 5097.98, the NAHC must immediately notify those persons believed to be the most likely descendant (MLD) from the deceased Native American. The MLD may, with the permission of the owner of the land, or his or her authorized representative, inspect the site of the discovery of the Native American human remains and may recommend to the owner or the person responsible for the excavation work, the means for treatment or disposition, with appropriate dignity, of the human remains and any associated grave goods. The MLDs shall complete their inspection and make recommendations or preferences for treatment within 48 hours of being granted access to the site.

3.6 Energy

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
VI. Energy – Would the project:				
a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?	☐	☐	☒	☐
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?	☐	☐	☒	☐

TPM 38215 is a Finance Map only, with no reasonably foreseeable development on the northern parcels. There would be no physical environmental changes on the northern parcels; therefore, there would be no impacts relative to energy on the northern parcels. Any future development proposed on the northern parcels would be subject to a separate energy analysis and CEQA process as determined by the City. The following analysis focuses only on the proposed Sandalwood Travel Center development on Parcel 3, based on the air quality modeling results included as Appendix A-1 to this IS/MND.

a) ***Would the project result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?***

Less Than Significant Impact. The short-term construction and long-term operation of the proposed development project will require the consumption of energy resources in several forms at the project site and within the project area. Construction and operational energy consumption are evaluated in detail below.

Electricity

Construction Use

Temporary electric power for as-necessary lighting and electronic equipment such as computers inside temporary construction trailers would be provided by Southern California Edison (SCE). The electricity used for such activities would be temporary and would have a negligible contribution to the project's overall energy consumption. No impact would occur.

Operational Use

Project operation would require electricity for multiple purposes including building heating and cooling, lighting, appliances, and electronics. For building consumption, default electricity consumption rates in California Emissions Estimator Model (CalEEMod) for the proposed project land uses and climate zone were used. Building operations for the project would involve energy consumption for multiple purposes including, but not limited to, building heating and cooling, lighting, and electronics, as well as parking lot lighting. Building operations, including parking lot lighting, would consume approximately 97,815 kilowatt hours per year of electricity (Appendix A-1). For comparison, non-residential electricity demand for Riverside County

in 2019 was 8,183 million kilowatt hours (CEC 2021a). The proposed development project would result in a negligible increase in electricity consumption. Impacts related to operational electricity use would therefore be less than significant.

Natural Gas

Construction Use

Natural gas is not anticipated to be required during construction of the proposed development project. Fuels used for construction would primarily consist of diesel and gasoline, which are discussed below under the "petroleum" subsection. Any minor amounts of natural gas that may be consumed as a result of project construction would have a negligible contribution to the project's overall energy consumption. No impact would occur.

Operational Use

Natural gas consumption during operation would be required for various purposes, including building heating and cooling and cooking. For building consumption, default natural gas generation rates in CalEEMod for the proposed development project land uses and climate zone were used. Building operations would consume an estimated 223,708 kilo-British thermal units per year of natural gas (Appendix A-1). For comparison, in 2019 approximately 148.2 million therms (148.2 billion kilo-British thermal units) of natural gas were delivered to Riverside County non-residential customers (CEC 2021b). The proposed development project is subject to statewide mandatory energy requirements as outlined in Title 24, Part 6, of the California Code of Regulations. Title 24, Part 11, contains additional energy measures that are applicable to proposed development project under the California Green Building Standards Code (CALGreen). As such, impacts related to operational natural gas use would be less than significant.

Petroleum

Construction Use

Heavy-duty construction equipment associated with construction activities would rely on diesel fuel, as would haul and vendor trucks involved in delivery of materials to the development project site. Construction workers would travel to and from the development project site throughout the duration of construction. It is assumed in this analysis that construction workers would travel to and from the site in gasoline-powered light-duty vehicles.

Heavy-duty construction equipment of various types would be used during each phase of the development project construction. Appendix A-1 lists the assumed equipment usage for each phase of construction. Fuel consumption from construction equipment was estimated by converting the total carbon dioxide (CO_2) emissions from each construction phase to gallons using the conversion factors for CO_2 to gallons of gasoline or diesel. The conversion factor for gasoline is 8.78 kilograms per metric ton CO_2 per gallon, and the conversion factor for diesel is 10.21 kilograms per metric ton CO_2 per gallon (The Climate Registry 2025). The estimated diesel fuel usage from construction equipment is shown in Table 12.

Table 12. Construction Equipment Diesel Demand

Phase	Pieces of Equipment	Equipment CO_2 (MT)	Kg CO_2/Gallon	Gallons
Site Preparation	7	12.01	10.21	1,176.30
Grading	7	10.74	10.21	1,051.81
Building Construction	9	250.10	10.21	24,495.20
Paving	8	11.02	10.21	1,079.33
Architectural Coating	1	1.09	10.21	106.76
			Total	**27,909.40**

Sources: Pieces of equipment and equipment CO_2 (Appendix A-1); kg CO_2/gallon (The Climate Registry 2025).
Notes: CO_2 = carbon dioxide; MT = metric ton; kg = kilogram.

Fuel estimates for total worker, vendor, and haul truck fuel consumption are provided in Table 13.

Table 13. Construction Worker, Vendor, and Haul Truck Petroleum Demand

Phase	Trips	Vehicle MT CO_2	Kg CO_2/ Gallon	Gallons
Worker Vehicles (Gasoline)				
Site Preparation	90	0.54	8.78	61.01
Grading	128	0.76	8.78	86.77
Building Construction	15,640	91.19	8.78	10,385.76
Paving	360	2.10	8.78	239.18
Architectural Coating	252	1.47	8.78	167.43
			Total	**10,940.15**
Vendor Trucks (Diesel)				
Site Preparation	20	0.28	10.21	27.19
Grading	32	0.44	10.21	43.49
Building Construction	6,440	88.03	10.21	8,621.45
Paving	72	0.98	10.21	95.98
Architectural Coating	72	0.98	10.21	95.98
			Total	**8,884.09**
Haul Trucks (Diesel)				
Site Preparation	0	0.00	10.21	0.00
Grading	608	19.01	10.21	1,861.90
Building Construction	0	0.00	10.21	0.00
Paving	0	0.00	10.21	0.00
Architectural Coating	0	0.00	10.21	0.00
			Total	**1,861.90**

Sources: Trips and vehicle CO_2 (Appendix A-1); kg CO_2/gallon (The Climate Registry 2025).
Notes: MT = metric ton; CO_2 = carbon dioxide; kg = kilogram.

In summary, construction of the development project is conservatively anticipated to consume approximately 10,940 gallons of gasoline and 38,655 gallons of diesel over a period of approximately 13 months. For comparison, approximately 20 billion gallons of petroleum will likely be consumed in California

over the course of the proposed project's construction phase, based on the California daily petroleum consumption estimate of approximately 78.6 million gallons per day (EIA 2017). Overall, because petroleum use during construction would be temporary, and would not be wasteful or inefficient, impacts would be less than significant.

Operational Use

The fuel consumption resulting from the development project's operational phase would be attributable to employees and visitors traveling to and from the project site. Petroleum fuel consumption associated with motor vehicles traveling to and from the project site during operation is a function of vehicle miles traveled (VMT). As shown in Appendix A-1, the annual VMT attributable to the development project is expected to be 19,047,169 VMT per year. Similar to construction worker and truck trips, fuel consumption for operation is estimated by converting the total CO_2 emissions from VMT to gallons using the conversion factors for CO_2 to gallons of gasoline or diesel. Based on the default CalEEMod vehicle mix and the countywide proportion of gasoline and diesel on-road vehicle VMT, the vehicles associated with the development project operations would likely be approximately 93% gasoline powered and 7% diesel powered vehicles. The estimated fuel use from vehicles traveling to and from the project site during operation is shown in Table 14.

Table 14. Project Operations – Petroleum Consumption

Fuel	Vehicle MT CO_2	Kg CO_2/Gallon	Gallons
Gasoline	4,862.23	8.78	553,784.77
Diesel	4,419.27	10.21	432,837.13

Source: Appendix A-1.
Notes: CO_2 = carbon dioxide; kg = kilogram; MT = metric ton.

As depicted in Table 14, development project operation would result in approximately 986,622 gallons of petroleum fuel usage per year. This is a conservative estimate since it does not account for usage of electric vehicles. By comparison, California as a whole consumes approximately 28.7 billion gallons of petroleum per year (EIA 2017).

Over the lifetime of the project, the fuel efficiency of vehicles is expected to increase. As such, the amount of petroleum consumed as a result of vehicular trips to and from the project site during operation is expected to decrease over time. There are numerous regulations in place that require and encourage increased fuel efficiency, such as efforts to accelerate the number of plug-in hybrids and zero-emissions vehicles in California and increasingly stringent emissions standards (CARB 2013). As such, operation of the development project is expected to use decreasing amounts of petroleum over time due to advances in fuel economy. Impacts related to operational petroleum use would therefore be less than significant.

In summary, although the project would increase energy use, the use would be a small fraction of the statewide use, and due to efficiency increases, is expected to diminish over time (particularly with respect to petroleum). Given these considerations, energy consumption associated with the project would not be considered inefficient or wasteful and would result in a less than significant impact.

b) Would the project conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

Less Than Significant Impact. The proposed development project would be subject to state regulations for energy efficiency, namely, California's Building Energy Efficiency Standards and CALGreen, both of which

are set forth in the California Code of Regulations, Title 24. California's Building Energy Efficiency Standards were established in 1978 and serve to enhance and regulate California's building standards. These standards include regulations for residential and nonresidential buildings constructed in California to reduce energy demand and consumption. The Building Energy Efficiency Standards are updated periodically (every 3 years) to incorporate and consider new energy efficiency technologies and methodologies. CALGreen institutes mandatory minimum environmental performance standards for all ground-up, new construction of commercial, low-rise residential, and state-owned buildings, as well as schools and hospitals. The 2016 CALGreen standards became effective on January 1, 2017. The new 2019 standard became effective on January 1, 2020. The proposed project would meet Building Energy Efficiency Standards and CALGreen standards to reduce energy demand and increase energy efficiency.

At a regional level, the proposed development project would be subject to the policies set forth in SCAG's 2020 RTP/SCS. The RTP/SCS is a regional growth-management strategy that targets per-capita GHG reduction from passenger vehicles and light-duty trucks in the Southern California region pursuant to Senate Bill (SB) 375. In addition to demonstrating the region's ability to attain and exceed the GHG emission-reduction targets set forth by CARB, the 2020 RTP/SCS outlines a series of actions and strategies for integrating the transportation network with an overall land use pattern that responds to projected growth, housing needs, changing demographics, and transportation demands. Thus, successful implementation of the 2020 RTP/SCS would result in more complete communities with a variety of transportation and housing choices, while reducing automobile use. With regard to individual developments, such as the development project, the strategies and policies set forth in the 2020 RTP/SCS include improved energy efficiency. The 2020 RTP/SCS goal is to actively encourage and create incentives for energy efficiency, where possible. As discussed previously, the project would comply with the 2019 CALGreen standards. For these reasons, the proposed project would be consistent with the SCAG 2020 RTP/SCS.

The proposed development project would follow applicable energy standards and regulations during construction. In addition, the proposed project would be built and operated in accordance with all existing, applicable regulations at the time of construction. As such, the proposed project would not conflict with existing energy standards and regulations and impacts would be less than significant.

3.7 Geology and Soils

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
VII. GEOLOGY AND SOILS – Would the project:				
a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:				
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to	☐	☐	☐	☒

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
Division of Mines and Geology Special Publication 42.				
ii) Strong seismic ground shaking?	☐	☐	☒	☐
iii) Seismic-related ground failure, including liquefaction?	☐	☐	☒	☐
iv) Landslides?	☐	☐	☐	☒
b) Result in substantial soil erosion or the loss of topsoil?	☐	☐	☒	☐
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?	☐	☐	☒	☐
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?	☐	☐	☒	☐
e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?	☐	☐	☐	☒
f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	☐	☒	☐	☐

TPM 38215 is a Finance Map only, with no reasonably foreseeable development on the northern parcels. There would be no physical environmental changes on the northern parcels; therefore, there would be no impacts relative to geology or paleontological resources on the northern parcels. Any future development proposed on the northern parcels would be subject to separate analyses and associated CEQA process as determined by the City. The following analysis focuses only on the proposed Sandalwood Travel Center development on Parcel 3, based on the Geotechnical Investigation Report, included as Appendix D to this IS/MND, and the Paleontological Resources Record Search, included as Appendix E.

a) Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:

i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.

No Impact. The City of Calimesa is located with Southern California, a known seismically active area. California's Alquist–Priolo Earthquake Fault Zoning Act of 1972 prohibits cities from issuing development permits for sites located within an earthquake fault zone. There are no known active

fault traces in the project vicinity. The closest known active fault is the San Jacinto fault, located approximately 5.7 miles west of the development project site, nor is it within the boundary of a Special Studies Zone (Earthquake Fault Zone) (Appendix D). Therefore, no impact would occur.

ii) Strong seismic ground shaking?

Less Than Significant Impact. Based on the proximity of several dominant active faults and seismogenic structures, as well as the historic seismic record, the area of the subject site is considered subject to relatively high seismicity. The seismic hazard most likely to impact the site is ground-shaking due to a large earthquake on one of the major active regional faults. The nearest faults to the project site are associated with the San Jacinto Fault and the San Andreas Fault system, located approximately 5.7 and 6.1 miles from the site, respectively. These faults are anticipated to be capable of producing a maximum 7.9 and 8.2 magnitude earthquake, respectively (Appendix D).

Although the development project site is expected to experience moderate to severe ground shaking, the proposed project would be designed and constructed in a manner that reduces the risk of seismic hazards (Title 24, California Code of Regulations). The proposed development project would be conditioned to comply with the most current seismic design coefficients, ground motion parameters, and all applicable provisions of the California Building Code. In addition, the proposed project would be designed and constructed consistent with all recommendations set forth in the Geotechnical Investigation conducted for the proposed project (Appendix D). Thus, seismic ground shaking impacts would be less than significant.

iii) Seismic-related ground failure, including liquefaction?

Less Than Significant Impact. Ground failure and liquefaction can potentially occur during an earthquake-induced ground-shaking event and can be a main cause of structure damage. Soil liquefaction is a state of soil particles suspension caused by a complete loss of strength when the effective stress drops to zero. Primary factors that trigger liquefaction are as follows: moderate to strong ground shaking (seismic source), relatively clean, loose granular soils (primarily poorly graded sands and silty sands), and saturated soil conditions (shallow groundwater).

The soils encountered within the depth of 34.5 feet on the development project site consisted predominantly of loose to dense silty sand with various amounts of clay, clayey sand, and poorly graded sand with silt; and very stiff to hard sandy silt with various amounts of clay, clayey silt with various amounts of sand, silty clay with various amounts of sand, and sandy clay. Low to very low cohesion strength is associated with the sandy soil. No groundwater was encountered during the field exploration (Appendix D). In addition, the development project site is located within a low liquefaction potential area (County of Riverside 2019), which is consistent with the liquefaction analysis included in Appendix D. Thus, liquification impacts would be less than significant.

iv) Landslides?

No Impact. Areas at risk from landslides include locations on or close to steep hills and steep road cuts or excavations, or areas where existing landslides have previously occurred. The development project site and surrounding area are on relatively flat ground devoid of steep slopes. Due to the

absence of significant slopes on or in the vicinity of the project site, the potential for slope failure that could affect the development project site is negligible. No impact related to landslides would occur.

b) Would the project result in substantial soil erosion or the loss of topsoil?

Less Than Significant Impact. During construction of the proposed development project, soils would be disrupted during grading activities, exposure of uncovered soils, thereby increasing the potential for wind or water-related erosion and sedimentation until the construction is completed. During construction activities, contractors would be required to comply with federal, state, and local requirements and guidelines to minimize the potential for soil erosion, including the NPDES General Permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities, 2009-0009-DWQ, as amended by 2010-0014-DWQ (General Construction Permit) and each jurisdiction's stormwater permit. A Stormwater Pollution Prevention Plan (SWPPP) would be prepared, outlining BMPs to minimize stormwater pollution resulting from erosion and sediment migration from the construction areas. In addition, the proposed development project must comply with SCAQMD Rule 403, through application of BMPs, to minimize fugitive dust from the project site. Compliance with applicable federal, state, and local regulations would ensure soil erosion, primarily during ground-disturbing construction activities, does not result in substantial loss of topsoil. Thus, soil erosion impacts would be less than significant.

c) Would the project be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?

Less Than Significant Impact.

Off-Site Landslide: Refer to response to Section 3.7(a)(iv).

Lateral Spreading: Lateral spreading is a phenomenon in which soils move laterally during seismic shaking, and is often associated with liquefaction. The amount of movement depends on the soil strength, duration and intensity of seismic shaking, topography, and free-face geometry. Due to the relatively flat site topography and low potential for liquefaction, the likelihood of lateral spreading would be low at the development project site. Thus, lateral spreading impacts would be less than significant.

Subsidence: Based on site subsurface conditions and the seismicity of the region, any loose granular materials at the development site could be vulnerable to surface settlement during a seismic event. In addition, the development project site is located within a susceptible subsidence potential area (County of Riverside 2019), but there are no known subsidence issues in the immediate project vicinity (Appendix D). Ground surface total settlements due to compression in the unsaturated zone are estimated to be on the order of 0.19 inches. Differential settlement is estimated to be approximately 0.1 inches. Although the development project site is susceptible to subsidence, the proposed project would be designed and constructed in a manner that reduces the risk of structure failure due to soil instability (Title 24, California Code of Regulations). The proposed development project would be conditioned to comply with the most current seismic design coefficients, ground motion parameters, and all applicable provisions of the California Building Code. In addition, the proposed development project would be designed and constructed consistent with all recommendations set forth in the Geotechnical Investigation conducted for the proposed project (Appendix D). Thus, surface settlement impacts would be less than significant.

Liquefaction and Collapse: Refer to response to Section 3.7(a)(iii).

Based on the existing soil conditions and the analyses conducted for the Geotechnical Investigation (Appendix D), the proposed project would not be located on an unstable geologic unit and impacts would be less than significant.

d) Would the project be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?

Less Than Significant Impact. Soils encountered within the development project site during the geotechnical investigation consisted predominantly of loose to dense silty sand with various amounts of clay, clayey sand, and poorly graded sand with silt; and very stiff to hard sandy silt with various amounts of clay, clayey silt with various amounts of sand, silty clay with various amounts of sand, and sandy clay. The clay content present within the on-site soils have water storage capabilities. When the soil absorbs water it can expand, followed by potential compression when it dries out. Excessive expansion and compression of soil can cause damage to the structures it supports. Laboratory testing of on-site soils concluded that the soils have minimal potential for collapse and expansion.

Although the on-site soils have low potential for expansion and compression, the proposed development project would be designed and constructed consistent with all recommendations set forth in the Geotechnical Investigation (Appendix D) to minimize risk of expansion/compression and avoid damage to proposed structures. The proposed development project would also comply with the California Building Code, which outlines specific design, engineering, and development standards for structures proposed in areas with unstable and expansive soils. Compliance with current regulations and implementation of recommendations set forth in the Geotechnical Investigation would ensure that proposed structures would be designed and engineered to withstand the impacts of expansive and unstable soils. Impacts related to expansive soils would be less than significant.

e) Would the project have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?

No Impact. The use of septic tanks or other alternative wastewater disposal systems would not be a part of the proposed development project; no impact would occur.

f) Would the project directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

Less Than Significant Impact with Mitigation Incorporated. The project development area is underlain by Quaternary old alluvial fan deposits (unit 2; map unit Qof_2) as mapped by Matti et al. (2015). These sedimentary deposits are middle to late Pleistocene (774,000 to 11,700 years old) in age and are comprised of silt, sand, and gravel deposited by fluvial processes (Matti et al. 2015; Cohen et al. 2021). Pleistocene, or Ice Age, deposits are considered to have moderate to high paleontological resources sensitivity and have yielded significant paleontological resources elsewhere in Riverside County (Jefferson 1991).

According to the museum records search conducted by the Natural History Museum of Los Angeles County (LACM), nearby fossil localities LACM VP (Vertebrate Paleontology) 7618 to 7622 produced Pleistocene

megafaunal remains, including fossil specimens of horse (*Equidae*) and camel (*Camelidae*) (Appendix E) (LACM 2021). Additional localities (LACM VP 1715 and 1107) near the San Jacinto River, approximately 9 miles east of Hemet, yielded a fossil specimen of horse (*Equus bautistensis*) and other unspecified vertebrates. Locality LACM VP 4540 from the northeastern side of the San Jacinto Valley, due west of Jack Rabbit Trail, yielded the remains of an extinct horse, *Equus*. Locality LACM VP 1269, located at the west end of the Indio hills, produced a fossil horse (*Equus*) specimen. Localities LACM VP 1653 and LACM IP 437, located north of the Soboba Indian Reservation, yielded invertebrates, including insect (*Sobobapteron kirkbaye*) and brachiopod (*Terebratalia hemphili*) specimens, as well as fish (*Squatina* and *Gasterosteus*). At the nearby El Casco Substation, Pleistocene age mammalian fossils were discovered during construction excavations by SCE, and included a saber-toothed cat, horse, panther, llamas, sloth, a new species of deer, and many different types of rodents (Sears 2010).

According to previous assessments in this area (Kennedy and Wirths 2015; Sanka 2006; Leslie 2004), discoveries have been common in San Timoteo Badlands, ever since the initial discoveries made by Frick (1921), and more recently according to studies by Albright (2000). However, due to the minor amount of ground disturbance (less than approximately 6,000 cubic yards of cut) for the Sandalwood Travel Center, the potential for impacts to paleontological resources would be low.

No paleontological resources were identified within the development project area as a result of the institutional records search or desktop geological review. If intact paleontological resources are located on site, ground-disturbing activities associated with construction of the project, such as grading during site preparation, have the potential to destroy a unique paleontological resource or site. Given the proximity of past fossil discoveries in the surrounding area and potential for underlying, Pleistocene-age old alluvial deposits, the project area is highly sensitive for paleontological resources. **MM GEO-1** shall be implemented to avoid impacts to subsurface paleontological resources. Paleontological impacts of the proposed development project would be less than significant with mitigation incorporated.

Mitigation Measures

MM GEO-1 Paleontological Resources. Prior to commencement of any grading activity in areas of moderate to high paleontological sensitivity, the development applicant shall retain a qualified paleontologist per the Society of Vertebrate Paleontology (SVP) (2010) guidelines. The paleontologist shall prepare a Paleontological Resources Impact Mitigation Program (PRIMP) for the project. The PRIMP shall be consistent with the SVP (2010) guidelines and shall outline requirements for preconstruction meeting attendance and worker environmental awareness training, where monitoring is required within the project area based on construction plans and/or geotechnical reports, procedures for adequate paleontological monitoring and discoveries treatment, and paleontological methods (including sediment sampling for microvertebrate fossils), reporting, and collections management. The qualified paleontologist shall attend the preconstruction meeting and a paleontological monitor shall be on-site during rough grading and other significant ground-disturbing activities in areas of previously undisturbed, moderate, and/or high paleontological resources sensitivity. In the event that paleontological resources (e.g., fossils) are unearthed during grading, the paleontological monitor will temporarily halt and/or divert grading activity to allow recovery of paleontological resources. The area of discovery will be roped off with a 50-foot radius buffer. Once documentation and collection of the find is completed in accordance with the SVP (2010) guidelines, the monitor will

remove the rope and allow grading to recommence in the area of the find. Collected significant paleontological resource materials shall be conveyed to the Western Science Center in Hemet for curation at the expense of the development applicant. Prior to the issuance of occupancy permits, a final paleontological monitoring letter detailing the monitoring program and including geological and paleontological observations, daily monitoring logs, identification of any significant finds, documentation of curation, if needed, and shall be provided to the City of Calimesa and the Western Science Center if fossils are curated.

3.8 Greenhouse Gas Emissions

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
VIII. GREENHOUSE GAS EMISSIONS – Would the project:				
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	☐	☐	☒	☐
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	☐	☐	☒	☐

TPM 38215 is a Finance Map only, with no reasonably foreseeable development on the northern parcels. There would be no physical environmental changes on the northern parcels; therefore, there would be no impacts relative to GHG emissions on the northern parcels. Any future development proposed on the northern parcels would be subject to a separate GHG emissions analysis and associated CEQA process as determined by the City. The following analysis focuses only on the proposed Sandalwood Travel Center development on Parcel 3, based on the air quality modeling results included as Appendix A-1 to this IS/MND.

The greenhouse effect is a natural process that contributes to regulating the Earth's temperature, and it creates a livable environment on Earth. Human activities that emit additional GHG emissions to the atmosphere increase the amount of infrared radiation that gets absorbed before escaping into space, thus enhancing the greenhouse effect and causing the Earth's surface temperature to rise. Global climate change is a cumulative impact; a project contributes to this impact through its incremental contribution combined with the cumulative increase of all other sources of GHGs. Thus, GHG impacts are recognized exclusively as cumulative impacts (CAPCOA 2008).

As defined in California Health and Safety Code Section 38505(g) for purposes of administering many of the state's primary GHG emissions reduction programs, GHGs include CO_2, methane (CH_4), nitrous oxide (N_2O), hydrofluorocarbons (HFCs), perfluorocarbons, sulfur hexafluoride, and nitrogen trifluoride. The three GHGs evaluated for GHG emission impacts are CO_2, CH_4, and N_2O. HFCs, perfluorocarbons, sulfur hexafluoride, and nitrogen trifluoride were not evaluated or estimated in this analysis because the proposed development project would not generate them in measurable quantities.

a) Would the project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

Gases in the atmosphere can contribute to climate change both directly and indirectly.[4] The Intergovernmental Panel on Climate Change developed the global warming potential (GWP) concept to compare the ability of each GHG to trap heat in the atmosphere relative to another gas. The reference gas used is CO_2; therefore, GWP-weighted emissions are measured in metric tons (MT) of CO_2 equivalent (CO_2e).

Construction Emissions

Less Than Significant Impact. Construction of the development project would result in GHG emissions, which are primarily associated with use of off-road construction equipment, on-road vendor and haul trucks, and worker vehicles. As previously stated, SCAQMD recommends that construction emissions be amortized over a 30-year project lifetime. The CalEEMod was used to estimate GHG emissions during construction as discussed in Section 3.3, Air Quality. Construction of the development project is anticipated to last up to 13 months. Table 15 shows the estimated annual GHG construction emissions associated with the proposed development project, as well as the annualized construction emissions over a 30-year project life.

Table 15. Estimated Annual Construction Greenhouse Gas Emissions

Year	CO_2	CH_4	N_2O	CO_2e
	Metric Tons per Year			
2025	62.59	0.00	0.00	63.91
2026	428.14	0.01	0.02	434.34
			Total	498.25
			Annualized emissions over 30 years	16.61

Source: Appendix A-1.
Notes: CO_2 = carbon dioxide; CH_4 = methane; N_2O = nitrous oxide; CO_2e = carbon dioxide equivalent.

As shown in Table 15, the estimated total GHG emissions during construction would be approximately 498 MT CO_2e over the construction period. Estimated development project-generated construction emissions annualized over 30 years would be approximately 17 MT CO_2e per year. As with project-generated construction air pollutant emissions, GHG emissions generated during construction of the proposed project would be short term in nature, lasting only for the duration of the construction period, and would not represent a long-term source of GHG emissions. As there is no construction GHG threshold, the amortized construction emissions were added to the operational emissions and evaluated therein.

Operational Emissions

Less Than Significant Impact. Emissions from the operational phase of the project were estimated using CalEEMod Version 2022.1.1.29. Operational year 2027 was assumed consistent with completion of project construction. The project-generated operational GHG emissions from area sources (landscape maintenance), energy sources (natural gas and electricity), mobile sources, refrigerants, solid waste, and water supply and wastewater treatment were evaluated. Emissions from each category are discussed in

[4] Direct effects occur when the gas itself absorbs radiation. Indirect radiative forcing occurs when chemical transformations of the substance produce other GHGs, when a gas influences the atmospheric lifetimes of other gases, and/or when a gas affects atmospheric processes that alter the radiative balance of the Earth (e.g., affect cloud formation or albedo) (EPA 2017).

the following text with respect to the project. For additional details, see Section 3.3 for a discussion of operational emission calculation methodology and assumptions, specifically for area, energy (natural gas), and mobile sources.

Area Sources

CalEEMod was used to estimate GHG emissions from the project's area sources, which include operation of gasoline-powered landscape maintenance equipment, which produce minimal GHG emissions, and natural gas fireplaces. See Section 3.3 for a discussion of landscaping equipment emissions calculations.

Energy Sources

The estimation of operational energy emissions was based on CalEEMod land use defaults and total area (i.e., square footage) of the project's land uses. At a minimum, the project will comply with Title 24 2019 standards. It should be noted that the Title 24 2022 standards are applicable for projects being constructed after January 1, 2023, and are more stringent than the 2019 standards; therefore, overall emissions under Title 24 2022 standards would be lower than 2019 standards. As such, the quantification of GHG emissions from energy sources contained in this section are conservative.

CalEEMod default energy intensity factors (CO_2, CH_4, and N_2O mass emissions per kilowatt hour) for SCE is based on the value for SCE's energy mix in 2019. SB 100 calls for further development of renewable energy, with a target of 44% by 2024, 52% by 2027, and 60% by 2030. Because SCE is striving to meet the 60% Renewables Portfolio Standard by December 31, 2030, the CO_2 emissions intensity factor is anticipated to be less than assumed in CalEEMod at full buildout from implementation of the project (2027, first year of project operations), which would reflect the increase in percentage of renewable energy in SCE's energy portfolio.

Mobile Sources

All details for criteria air pollutants discussed in Section 3.3 are also applicable for the estimation of operational mobile source GHG emissions.

Regulatory measures related to mobile sources include Assembly Bill (AB) 1493 (Pavley) and related federal standards. AB 1493 required that CARB establish GHG emission standards for automobiles, light-duty trucks, and other vehicles determined by CARB to be vehicles that are primarily used for non-commercial personal transportation in the state. In addition, the National Highway Traffic Safety Administration and EPA have established corporate fuel economy standards and GHG emission standards, respectively, for automobiles and light-, medium-, and heavy-duty vehicles. Implementation of these standards and fleet turnover (replacement of older vehicles with newer ones) will gradually reduce emissions from the project's motor vehicles. The effectiveness of fuel economy improvements was evaluated by using the CalEEMod emission factors for motor vehicles in 2027 to the extent it was captured in EMFAC 2021. The Low Carbon Fuel Standard calls for a 10% reduction in the "carbon intensity" of motor vehicle fuels by 2021, which would further reduce GHG emissions.

Refrigerants

CalEEMod was utilized to estimate fugitive GHG emissions from refrigerants used for air conditioning and refrigeration equipment. Different types of refrigeration equipment are utilized for different types of land uses and CalEEMod generates default refrigerant values based on land use subtype and industry data from the EPA. CalEEMod quantifies refrigerant emissions from leaks during regular operation and routine servicing over the equipment lifetime and then derives average annual emissions from the lifetime estimate but does not quantify emissions from the disposal of refrigeration and air conditioning equipment at the end of its lifetime.

Most of the refrigerants used today are HFCs or blends thereof, which can have high GWP values. However, California is required to reduce HFC emissions 40% below 2013 levels by 2030 under SB 1383, and regulations have been adopted to place GWP limits on HFCs, such as SB 120. While CalEEMod default refrigerant values were assumed for the land use surrogate of commercial research and development land use, it is anticipated to be conservative.

Solid Waste

The project would generate solid waste and, therefore, would result in CO_2e emissions associated with landfill off-gassing. CalEEMod default values for solid waste generation were used to estimate GHG emissions associated with solid waste. Project compliance with statewide solid waste diversion goals, including the 75% diversion rate by 2020 consistent with AB 341 (25% increase from the solid waste diversion requirements of AB 939, Integrated Waste Management Act), would reduce project-generated GHG emissions associated with solid waste disposal. No diversion above the CalEEMod default assumptions was assumed.

Water and Wastewater

Supply, conveyance, treatment, and distribution of water for the project require the use of electricity, which would result in associated indirect GHG emissions. Similarly, wastewater generated by the project requires the use of electricity for conveyance and treatment, along with GHG emissions generated during wastewater treatment. Water consumption estimates for both indoor and outdoor water use and associated electricity consumption from water use and wastewater generation were estimated using CalEEMod default values.

Estimated annual operation emissions of the proposed development project are shown in Table 16.

Table 16. Estimated Annual Operational Greenhouse Gas Emissions (2027)

Emissions Source	CO_2	CH_4	N_2O	CO_2e[a]
	Metric Tons per Year			
Area	0.05	0.00	0.00	0.05
Energy	27.23	0.00	0.00	27.35
Mobile	9,281.49	0.29	0.86	9,557.30
Refrigerants	0.00	0.00	0.00	19.85
Solid Waste	2.07	0.21	0.00	7.24
Water and Wastewater	1.82	0.04	0.00	2.96
			Total	9,614.75

Table 16. Estimated Annual Operational Greenhouse Gas Emissions (2027)

Emissions Source	CO_2	CH_4	N_2O	CO_2e[a]
	Metric Tons per Year			
Amortized Construction Emissions				*16.61*
Total with Construction Emissions				**9,631.36**

Source: Appendix A-1.
Notes: CO_2 = carbon dioxide; CH_4 = methane; N_2O = nitrous oxide; CO_2e = carbon dioxide equivalent.
[a] Numbers may not sum precisely due to rounding.

The City of Calimesa Climate Action Plan (City of Calimesa 2014c) does not include an adopted threshold for GHG emissions. For CEQA purposes, the City is responsible for selecting an appropriate significance criterion, based on substantial evidence. In guidance drafted by the SCAQMD GHG CEQA Significance Threshold Working Group, SCAQMD considered the following tiered approach to determine the significance of GHG emissions from residential and commercial projects (SCAQMD 2010):

- Tier I – Exemptions, e.g., categorical, statutory, etc.
- Tier II – Consistency with a locally adopted GHG reduction plan
- Tier III – Numerical Screening Thresholds (10,000 MT CO_2e for industrial projects and 3,000 MT CO_2e for non-industrial projects)
- Tier IV – Service Population Screening Threshold

Tier III was determined to be the most appropriate approach for the proposed project because the City of Calimesa has not adopted a significance threshold for GHG emissions (City of Calimesa 2014c). As such, the numerical threshold of 10,000 MT CO_2e per year for industrial project was used as the significance threshold in this analysis.

As shown in Table 16, the proposed development project would result in 9,615 MT CO_2e per year during operation. When the amortized construction emissions are included, the total project operational emissions would be 9,631 MT CO_2e per year. As such, the proposed project would not exceed the industrial threshold of 10,000 MT CO_2e per year as established by the SCAQMD. In addition, the development applicant would be required to include the minimal energy efficiency and water conservation measures to the proposed development project, as required for small projects in the Climate Action Plan (CAP). Impacts would be less than significant.

b) Would the project generate conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

Less Than Significant. The proposed development project would result in less than significant impacts related to conflicts with GHG emission reduction plans, for the reasons described below.

Consistency with the City of Calimesa Climate Action Plan

The City of Calimesa CAP was adopted in September 2014 (City of Calimesa 2014c). The City of Calimesa CAP includes measures and goals set forth in order to reduce GHG emissions and meet the City's 2020 and 2035 goals. The reduction targets for 2020 and 2035 are based on 15% and 49% decreases from the City's 2010 baseline emissions inventory, which was approximately 69,249 MT CO_2e. The reduction

measures are categorized by source category (transportation, energy efficiency, renewable energy, and solid waste). As discussed in Section 3.8(a), construction of the proposed project would not exceed the threshold of 10,000 MT CO_2e per year. The proposed development project would result in approximately 9,631 MT CO_2e operational GHG emissions. In addition, the development applicant would be required to include the minimal energy efficiency and water conservation measures to the proposed development project, as required for small projects in the CAP. Therefore, the proposed development project would not conflict with the City of Calimesa CAP.

Consistency with CARB's Scoping Plan

The CARB Scoping Plan, approved by CARB in 2008 and updated in 2014, 2017, and 2022, provides a framework for actions to reduce California's GHG emissions and requires CARB and other state agencies to adopt regulations and other initiatives to reduce GHGs. The Scoping Plan is not directly applicable to specific projects, nor is it intended to be used for project-level evaluations.[5] Under the Scoping Plan, however, there are several state regulatory measures aimed at the identification and reduction of GHG emissions. CARB and other state agencies have adopted many of the measures identified in the Scoping Plan. Most of these measures focus on area source emissions (e.g., energy usage, high-GWP GHGs in consumer products) and changes to the vehicle fleet (i.e., hybrid, electric, and more fuel-efficient vehicles) and associated fuels (e.g., Low Carbon Fuel Standard), among others.

Consistency with the SCAG 2016–2040 RTP/SCS

SCAG's 2020 RTP/SCS is a regional growth-management strategy that targets per-capita GHG reduction from passenger vehicles and light-duty trucks in the Southern California region. The 2020 RTP/SCS incorporates local land use projections and circulation networks in city and county general plans. The 2016 RTP/SCS is not directly applicable to the proposed project because the purpose of the 2020 RTP/SCS is to provide direction and guidance by making the best transportation and land use choices for future development. The proposed development project would not conflict with implementation of the strategies identified in the 2020 RTP/SCS that would reduce GHG emissions.

Consistency with Executive Order S-3-05, Senate Bill 32, and Executive Order B-55-18

The proposed project would not impede the attainment of the GHG reduction goals for 2030 or 2050, as identified in Executive Order (EO) S-3-05 and SB 32. EO S-3-05 establishes the following goals: GHG emissions should be reduced to 2000 levels by 2010, to 1990 levels by 2020, and to 80% below 1990 levels by 2050. SB 32 establishes a statewide GHG emissions reduction target whereby CARB, in adopting rules and regulations to achieve the maximum technologically feasible and cost-effective GHG emissions reductions, shall ensure that statewide GHG emissions are reduced to at least 40% below 1990 levels by December 31, 2030. While there are no established protocols or thresholds of significance for that future year analysis, CARB forecasts that compliance with the current Scoping Plan puts the state on a trajectory of meeting these long-term GHG goals, although the specific path to compliance is unknown (CARB 2014).

[5] The Final Statement of Reasons for the amendments to the CEQA Guidelines reiterates the statement in the Initial Statement of Reasons that "[t]he Scoping Plan may not be appropriate for use in determining the significance of individual projects because it is conceptual at this stage and relies on the future development of regulations to implement the strategies identified in the Scoping Plan" (CNRA 2009).

EO B-55-18 (September 2018) establishes a statewide policy for California to achieve carbon neutrality as soon as possible, and no later than 2045, and achieve and maintain net-negative emissions thereafter.

CARB has expressed optimism regarding both the 2030 and 2050 goals. It states in the First Update to the Climate Change Scoping Plan that "California is on track to meet the near-term 2020 GHG emissions limit and is well positioned to maintain and continue reductions beyond 2020 as required by AB 32" (CARB 2014). With regard to the 2050 target for reducing GHG emissions to 80% below 1990 levels, the First Update to the Climate Change Scoping Plan states that the level of reduction is achievable in California (CARB 2014). CARB believes that the state is on a trajectory to meet the 2030 and 2050 GHG reduction targets set forth in AB 32, SB 32, and EO S-3-05. This is confirmed in the Second Update, which states (CARB 2017, p. 7):

> The Proposed Plan builds upon the successful framework established by the Initial Scoping Plan and First Update, while also identifying new, technologically feasibility [sic] and cost-effective strategies to ensure that California meets its GHG reduction targets in a way that promotes and rewards innovation, continues to foster economic growth, and delivers improvements to the environment and public health, including in disadvantaged communities. The Proposed Plan is developed to be consistent with requirements set forth in AB 32, SB 32, and AB 197.

The proposed project would not interfere with implementation of any of the above-described GHG reduction goals for 2030 or 2050 because the project would not exceed the SCAQMD's recommended threshold of 10,000 MT CO_2e per year (SCAQMD 2008). Because the proposed development project would not exceed the threshold, this analysis provides support for the conclusion that the project would not impede the state's trajectory toward the above-described statewide GHG reduction goals for 2030 or 2050.

The proposed project's consistency with the state's Scoping Plan would assist in meeting each jurisdiction's contribution to GHG emission reduction targets in California. With respect to future GHG targets under SB 32 and EO S-3-05, CARB has also made clear its legal interpretation that it has the requisite authority to adopt whatever regulations are necessary, beyond the AB 32 horizon year of 2020, to meet the SB 32 40% reduction target by 2030 and the EO S-3-05 80% reduction target by 2050. This legal interpretation by an expert agency provides evidence that future regulations will be adopted to continue the trajectory toward meeting these future GHG targets.

Based on the above considerations, the proposed development project would not conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing GHG emissions. Impacts would be less than significant.

3.9 Hazards and Hazardous Materials

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
IX. HAZARDS AND HAZARDOUS MATERIALS – Would the project:				
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	☐	☐	☒	☐
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	☐	☐	☒	☐
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	☐	☐	☐	☒
d) Be located on a site that is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	☐	☐	☒	☐
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?	☐	☐	☐	☒
f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	☐	☐	☐	☒
g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?	☐	☐	☐	☒

TPM 38215 is a Finance Map only, with no reasonably foreseeable development on the northern parcels. There would be no physical environmental changes on the northern parcels; therefore, there would be no impacts relative to hazards and hazardous materials on the northern parcels. Any future development proposed on the northern parcels would be subject to a separate analysis and associated CEQA process as determined by the City. The following analysis focuses only on the proposed Sandalwood Travel Center development on Parcel 3, based on the Phase I Environmental Site Assessment included as Appendix F to this IS/MND.

a) Would the project create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?

Construction Activities

Less Than Significant Impact. During construction of the proposed development project, potentially hazardous materials would likely be handled on the project site. These materials would include gasoline, diesel fuel, lubricants, and other petroleum-based products used to operate and maintain construction equipment. Handling these potentially hazardous materials would be temporary and would coincide with the short-term construction phase of the proposed development project.

In addition, if removal of any construction-generated hazardous waste from the project site is required, the development applicant must use a certified hazardous waste transportation company to haul hazardous waste to a permitted facility for treatment, storage, recycling, or disposal. Based on the above provisions, the proposed development project would not create a significant hazard to the public or environment and impacts would be less than significant.

Operation Activities

Less Than Significant Impact. During the operation phase of the development project, gasoline and diesel fuel—which are considered hazardous materials—would be routinely handled, stored, and dispensed on the development project site. Five underground storage tanks (USTs) are proposed on-site: a 20,000-gallon unleaded gasoline tank, a 12,000-gallon unleaded premium gasoline tank, a 10,000-gallon diesel fuel tank, a 4,000-gallon diesel exhaust fluid tank, and a 30,000-gallon bio-diesel tank. Fuel tankers would utilize I-10 to Sandalwood Drive to 7th Street to access the project site. Truck drivers would be subject to federal and state requirements that regulate the transport of hazardous materials and the operation of fuel tanker trucks. On the project site, tanker trucks would transfer fuel to the USTs, which would be permitted by the County of Riverside Department of Environmental Health Hazardous Materials Management Branch. Permitting requires submittal of UST plans to the Hazardous Materials Management Branch prior to installation, modification, repair, or removal of a UST. In addition, the development applicant would be required to prepare and implement a Hazardous Materials Business Plan (HMBP), pursuant to the Riverside County Municipal Code Chapter 8.64, which would be reviewed and approved by the Riverside County Department of Environmental Health. The purpose of the HMBP is to assist business owners with compliance with state requirements and provide emergency responders with adequate information about the type and quantity of hazardous materials stored at a facility. Although inadequate maintenance of USTs may result in leaks, California Code of Regulations Title 23, Chapter 16 and Riverside County Ordinance 617 mandate regular monitoring, maintenance, and inspection of USTs, which would ensure the safe and appropriate operation of the proposed UST on site (County of Riverside 2020).

Travel Center patrons would regularly use hazardous materials while dispensing fuel at the pumps. Refueling activities release benzene into the air; however, benzene emissions can be reduced by more than 90% by the vapor recovery systems required at fuel pumps. Nevertheless, benzene emissions have the potential to cause near-source health risks (CARB 2005). CARB recommends siting sensitive land uses, such as residences, at least 50 feet (15.2 meters) from typical gasoline dispensing facilities (CARB 2005). The proposed fueling canopies would be set back approximately 100 feet from the northern and western property boundaries. The closest residence is located approximately 0.2 miles north of the development

project site. Therefore, the proposed fuel pumps would be located outside the recommended 50-foot buffer and benzene emissions would not pose a risk to the nearest residences.

Routine inspection of the travel center, the permitted USTs, all associated fuel delivery infrastructure, and compliance with all federal, state, and local regulations would ensure that operation of the proposed development project would not pose significant hazards to the public or environmental. Impacts would be less than significant.

b) Would the project create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?

Construction Activities

Less Than Significant Impact. Construction at the development project site would involve the temporary use of small quantities of hazardous and/or flammable materials, including diesel fuel, gasoline, and other oils and lubricants. The use, storage, transport, and disposal of these materials would comply with all existing local, state, and federal regulations, as previously described. Nonetheless, accidental/incidental spills of construction-related contaminants (e.g., fuels and oils) could occur during grading and construction, thereby degrading water quality in the project vicinity. Because the proposed project would exceed 1 acre in size, the development applicant would be required to comply with the General Construction Activity NPDES Permit (Order No. 2009-0009-DWQ, as amended by Order No. 2010-0014-DWQ, NPDES No. CAS000002), which requires the development applicant to prepare and implement a SWPPP during construction activities. The SWPPP must include water quality protection measures with respect to incidental spills of petroleum products and hazardous materials, including secondary containment of fluid containers, storing fluid containers indoors during rain events, placing drip pans under equipment when not in use, and designating specific areas for equipment fueling and maintenance with surrounding spill containment booms. With implementation of erosion and spill control measures stipulated in a project-specific SWPPP, the proposed development project would not create a significant hazard to the public or environmental through accidental release of hazardous materials during construction activities. Impacts would be less than significant.

Operation Activities

Less Than Significant Impact. During the operation phase of the proposed development project, spills and other accidental release of gasoline could contaminate soils or surface water in the project vicinity. The Riverside County Department of Environmental Health Hazardous Materials Management Branch, as the State Certified Unified Program Agency in the City, is responsible for review and approval of the project-specific HMBP. The HMBP that would set forth operational procedures, emergency contact information, emergency response plan for containment spills or release of vapors and other information required in the HMBP (County of Riverside 2020; refer to Section 3.9[a]). Implementation of the HMBP would ensure that an emergency response plan is in place in the event that hazardous materials were accidentally released during operations. Impacts would be less than significant.

c) Would the project emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?

No Impact. The nearest school to the project site is Mesa View Middle School, located approximately 0.5 miles to the northwest at 800 Mustang Way, Calimesa. As discussed in the response in Section 3.7(a), construction and operation of the proposed project would comply with all applicable federal, state, and local regulations. In addition, fuel tankers would access the project site via I-10 to Sandalwood to 7th Street, which would not require the trucks to be in close proximity to any nearby schools. No impact would occur.

d) Would the project be located on a site that is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?

Less Than Significant Impact. Pursuant to Government Code 65962.5 and its subsections, record searches on the development project property were performed within the following databases: GeoTracker, EnviroStor, and the U.S. Environmental Protection Agency (EPA) Enforcement and Compliance History Online.

The GeoTracker database did not identify Leaking Underground Storage Tank Cleanup Sites, Land Disposal Sites, Military Sites, Department of Toxic Substances Control Hazardous Waste Permits, Department of Toxic Substances Control Cleanup Sites, or Permitted Underground Storage Tanks within or adjacent to the development site. The nearest registered GeoTracker database site is located approximately 0.1 miles east of the development site. The County Cork Liquor, at 1198 Calimesa Boulevard, was listed as a Leaking Underground Storage Tank Cleanup Site. However, the status of the site is "completed -- case closed" as of July 2003 (SWRCB 2021). Therefore, this site does not pose a threat to the development site due to its distance and case closed status.

The EnviroStor database did not register a federal Superfund, a State Response, Voluntary Cleanup, School Cleanup, Evaluation, School Investigation, Military Evaluation, Tiered Permit, or Corrective Action Site in close proximity to the development site. The nearest cleanup site is a School Investigation at Mesa View Middle School, located approximately 0.5 miles northwest of the development site. No contaminants were identified, and the status is listed as "no action required" as of May 2002 (DTSC 2021).

No indication of the project development site was found when consulting the Enforcement and Compliance History Online database (EPA 2021).

In addition to the database searches summarized above, a Phase I Environmental Site Assessment was completed for the development site (Appendix F). The Phase I Environmental Site Assessment found no evidence of a recognized environmental condition (e.g., the presence or likely presence of any hazardous substances or petroleum projects in, on, or at a property) within the development site. Although the development site was historically used for agricultural purposes, it is likely that any pesticides, herbicides, and fertilizers which may have been used and/or stored on site have since degraded. Therefore, the possible former use of agricultural chemicals is not expected to represent a significant environmental concern. The Phase I Environmental Site Assessment concluded that further investigation is not warranted for the proposed development project. However, if the development project were to include residential development, then soil sampling for agricultural use would be warranted (Appendix F).

In conclusion, impacts related to being located on a site listed on a hazardous materials database would be less than significant.

e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?

No Impact. The project site is not within an adopted airport land use compatibility plan or within 2 miles of a public airport. The nearest airport to the project site is Redlands Municipal Airport, located approximately 7.5 miles to the northwest at 1755 Sessums Drive, Redlands. Because the project site is not within an airport land use compatibility plan, it would not result in safety hazards for people residing or working in the project area. As such, no impact would occur.

f) Would the project impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

No Impact. The proposed development project includes development of gasoline and diesel fueling pumps, a convenience store, and a common area for customers on a parcel that is slated for commercial development under the City's General Plan. No existing or proposed roadways would be impacted by the proposed development project that would affect the evacuation routes established by the City (City of Calimesa 2014d). In addition, the proposed development project would be required to implement any applicable programs for the Riverside County Disaster Preparedness Plan in the event of a natural disaster or other emergency. As such, the proposed development project would not impair implementation of or interfere with an adopted emergency response plan, and no impact would occur.

g) Would the project expose people or structures, either directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires?

No Impact. The development project site is served by the City of Calimesa Fire Department (refer to Section 3.15, Public Services). There are no state responsibility areas within the City of Calimesa, based on City of Calimesa Fire Hazard Severity Zone map (CAL FIRE 2009). The nearest state responsibility area is located approximately 1.5 miles west of the project site within unincorporated Riverside County. In addition, there are no Very High Fire Severity Zones near the project site, within the City of Calimesa Local Responsibility Area (CAL FIRE 2009). The nearest Local Responsibility Area (LRA) to the development project site is located approximately 1 mile southwest of the project site. In addition, compliance with local and state regulations would ensure proper installation and maintenance of USTs storing diesel fuel on site and proper handling and cleanup of hazardous materials within the project site. As such, compliance with applicable local and state regulations, flammable hazardous materials within the project site would be managed to avoid accidental spills that could result in fires. Therefore, the proposed development project would not expose people or structures to a significant risk associated with wildland fires and no impact would occur.

3.10 Hydrology and Water Quality

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
X. HYDROLOGY AND WATER QUALITY – Would the project:				
a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?	☐	☐	☒	☐
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?	☐	☐	☒	☐
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:				
i) result in substantial erosion or siltation on or off site;	☐	☐	☒	☐
ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on or off site;	☐	☐	☒	☐
iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or	☐	☐	☒	☐
iv) impede or redirect flood flows?	☐	☐	☒	☐
d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?	☐	☐	☐	☒
e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?	☐	☐	☐	☒

TPM 38215 would not result in any physical environmental changes on the northern parcels; therefore, it would not result in impacts relative to hydrology or water quality on the northern parcels. Any future development proposed on the northern parcels would be subject to a separate hydrology and water quality analysis and associated CEQA process as determined by the City. The following analysis focuses only on the proposed Sandalwood Travel Center development on Parcel 3, based on the Geotechnical Engineering Investigation (Appendix D), Hydrology Report (Appendices G1–G3), and Water Quality Management Plan (WQMP) (Appendix H).

a) Would the project violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?

Less Than Significant Impact. Construction and operation of the Sandalwood Travel Center would generate pollutants that may impact stormwater quality. The Santa Ana RWQCB sets water quality standards for all

ground and surface waters within the project's region. Water quality standards are defined under the CWA to include both the beneficial uses of specific water bodies and the levels of water quality that must be met and maintained to protect those uses (water quality objectives).

Short-Term Construction

Construction-related activities have the potential to result in impacts to water quality due to grading activities that would potentially cause erosion and sedimentation in runoff. Sediments also transport substances such as nutrients, hydrocarbons, and trace metals, which could be conveyed to the storm drain facilities and receiving waters, including San Timoteo Creek and the Santa Ana River. Substances such as fuels, oil and grease, solvents, paints and other building construction materials, wash water, and dust control water could also enter storm runoff and be transported to nearby waterways. This could potentially degrade the quality of the receiving waters and lead to the impairment of downstream water sources.

Construction activities associated with the proposed development project would disturb approximately 4.2 acres of soil. Projects that disturb greater than 1 acre of soil are required to comply with the State Water Resources Control Board's NPDES permit Waste Discharge Requirements for Discharges of Storm Water Runoff Associated with Construction and Land Disturbance Activities (Order No. 2009-0009-DWQ, NPDES No. CAS000002, as amended by Orders No. 2010-0014-DWQ and 2012-0006-DWQ) (Construction General Permit). In compliance with the Construction General Permit, a SWPPP would be prepared for the development project and construction BMPs implemented to target pollutants of concern. Compliance with the Construction General Permit would ensure that the development project's construction-related impacts to water quality would be less than significant.

Long-Term Operation

The project site is currently undeveloped. Development of the proposed project would result in construction of impervious surfaces across most of the project site, which would reduce ground percolation and increase stormwater runoff. Potential pollutants of concern that could be generated by long-term operation of the proposed project include metals, solvents, trash and debris, and oil and grease. These pollutants may lead to the degradation of stormwater quality in downstream water bodies, including San Timoteo Creek and the Santa Ana River.

The Municipal Storm Water Permitting Program regulates stormwater discharges from municipal separate storm sewer (drain) systems (MS4s). The Santa Ana MS4 permit was issued in 2010 and amended in 2013 (Santa Ana RWQCB 2013). The Santa Ana MS4 Permit covers the portion of the Santa Ana River watershed located within Riverside County (Order No. R8-2010-0033, NPDES Permit No. CAS618033). To date, the Riverside County Flood Control and Water Conservation District (principal permittee), the County of Riverside, and the City of Calimesa, along with 14 other incorporated cities therein (co-permittees), discharge pollutants from their MS4s (Santa Ana RWQCB 2013). Urban runoff from the stormwater and non-stormwater flows are conveyed through the MS4s and discharged to surface water bodies within the Santa Ana River watershed.

The MS4 permit requires the development and implementation of a program addressing stormwater pollution issues in development planning for private projects. Pursuant to the Santa Ana MS4 permit, a WQMP, which includes project-specific post-construction BMPs to address potential runoff and ongoing maintenance of on-site drainage improvements, has been prepared for the project (Appendix H). The WQMP includes three

bioretention basins to be constructed along the western property boundary, which would filter residual stormwater pollutants prior to stormwater being discharged to the storm drain. In addition, landscaping would be installed around the perimeter of the site, as well as within select interior areas, which would serve as self-treating areas to further reduce stormwater pollution. Implementation of the project-specific WQMP would ensure compliance with established water quality standards. Therefore, through compliance with the Santa Ana MS4 permit and implementation of a project-specific WQMP, the proposed project would not violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality. As such, impacts would be less than significant.

b) Would the project substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?

Groundwater Supplies

Less Than Significant Impact. The City of Calimesa is primarily served by groundwater from the San Timoteo Subbasin of the Beaumont Groundwater Basin. Wells for domestic use in the City are operated by the South Mesa Water Company, the Yucaipa Valley Water District, and the Beaumont Cherry Valley Water District. In addition, the San Gorgonio Pass Water Agency provides State Water Project to the City (City of Calimesa 2014d). The subbasin is bounded to the north and northeast by the Banning fault and impermeable rocks of the San Bernardino Mountains, Crafton Hills, and Yucaipa Hills; on the south by the San Jacinto Fault; on the west by the San Jacinto Mountains; and on the east by a topographic drainage divide with the Colorado River Hydrologic Region. The surface of the subbasin is drained by Little San Gorgonio Creek and San Timoteo Canyon, which flow to the Santa Ana River. Groundwater in the San Timoteo Subbasin is replenished by subsurface inflow and percolation of precipitation, runoff, wastewater discharge, and imported water. Runoff and imported water are delivered to streambeds and spreading grounds for percolation. The San Timoteo Subbasin is not adjudicated, and reliable estimates of total groundwater extractions are not available. However, water table elevations within the San Timoteo Subbasin have not declined over the years, which is likely due to the constant flow of treated wastewater from the Yucaipa Valley Water District that flows through San Timoteo Creek (SBVMWD 2016).

The San Timoteo Subbasin is classified as a low to very low priority with respect to groundwater basin prioritization under the Sustainable Groundwater Management Act. Basins with a medium to high priority ranking are required to complete a Groundwater Sustainability Plan and manage groundwater for long-term sustainability. Currently, the non-adjudicated portion of the San Timoteo Subbasin is managed by the San Timoteo Groundwater Sustainability Agency (GSA), which is formed via a Memorandum of Agreement between four Forming Parties, including the City of Redlands, San Gorgonio Pass Water Agency, Beaumont Cherry Valley Water District, and Yucaipa Valley Water District. Each agency overlies a portion of the subbasin and exercises water management, water supply, or land use authority within a portion of the subbasin. The San Timoteo GSA coordinates with the Eastern Municipal Water District, which manages a separate GSA in the southern non-adjudicated portion of the basin (California DWR 2021a, 2021b). Because the San Timoteo Subbasin is classified as a low to very low priority with respect to groundwater basin prioritization and because water table elevations within the San Timoteo Subbasin have not declined over the years, the project would not substantially decrease groundwater supplies such that the project may impede sustainable groundwater management of the basin. Impacts would be less than significant.

Groundwater Recharge

Less Than Significant Impact. The proposed Sandalwood Travel Center development project would include construction of impervious surfaces across the majority of the project site, which is currently undeveloped. Therefore, an increase in impervious surfaces would decrease percolation potential within the project site. As noted in the Geotechnical Investigation (Appendix D) conducted for the proposed project, groundwater was not encountered in exploratory borings at depths up to 34.5 feet below ground surface. In addition, based on the soil borings, on-site soils consist primarily of dense silt and clay, which is not conducive to percolation of stormwater. Percolation tests confirmed that infiltration rates are extremely slow. In addition, although implementation of the proposed development project would reduce the pervious areas available for potential natural recharge, the area of the project site is relatively small (approximately 4.2 acres) in relation to the areal size of the groundwater basin (188,000 acres), providing little opportunity to recharge under existing conditions. As a result, implementation of the proposed project would not significantly interfere with groundwater recharge and impacts would be less than significant.

c) Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:

i) result in substantial erosion or siltation on or off site?

Less Than Significant Impact. Stormwater runoff currently occurs as sheet flow towards the western property boundary. Project grading would alter existing ground contours of the project site and new construction would increase the impervious surface area on the site, all of which would result in changes to the existing drainage patterns. By increasing the amount of impervious surfaces on the site, more surface runoff would be generated, and the rate and volume of runoff would increase. Unabated increased runoff rates could potentially result in off-site erosive scour and sedimentation of downstream drainages, Timoteo Creek, and the Santa Ana River.

However, runoff generated from the proposed project would be directed towards the west where flows would be captured and treated through three proposed bio-retention basins and an underground detention basin. The latter would consist of a 22-foot-long, 60-inch-diameter corrugated metal pipe with a capacity of 21,598 cubic feet. The combined capacity of the bioretention basins would be 9,866 cubic feet and the capacity of the underground detention basin would be 21,598 cubic feet, for a total combined capacity of 31,464 cubic feet. The maximum stormwater runoff volume associated with the 2-year, 10-year, and 100-year storm event would be 31,114 cubic feet (Appendix G-1). Therefore, the proposed detention devices would reduce off-site runoff volumes to less than existing conditions.

Post-construction runoff rates are the primary driver of potential off-site erosive scour. Based on the Riverside County Flood Control and Water Conservation District Hydrology Manual (RCFCWCD 1978), in cases where excess volume from the project site cannot be infiltrated or captured and reused on site, discharge from the site must be limited to a flow rate no greater than 110% of the pre-development 2-year peak flow. The initial Hydrology Report for the proposed project (Appendix G-1) did not calculate post-construction runoff rates associated with the 2-year peak flow event, including incorporation of the proposed detention devices. An addendum letter to the Hydrology Report (Appendix G-2) calculated pre- and post-development runoff rates, but without detention.

However, an additional addendum (Appendix G-3) demonstrates that post-detention runoff rates would remain less than or equal to pre-development runoff rates. As a result, implementation of the proposed project would not substantially alter the drainage pattern of the site, including the addition of impervious surfaces, in a manner that would result in substantial erosion or siltation on or off site. Impacts would be less than significant.

ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on or off site?

Less Than Significant Impact. As discussed in Section 3.10(c)(i), unabated increased runoff rates could potentially result in off-site flooding of downstream drainages. However, runoff generated from the proposed project would be directed towards the west where flows would be captured and treated through three proposed bio-retention basins and an underground detention basin. The combined capacity of the bioretention basins and the underground detention basin would reduce off-site runoff volumes to less than existing conditions. Discharge from the site must be limited to a flow rate no greater than 110% of the pre-development 2-year peak flow. The initial Hydrology Report for the proposed project (Appendix G-1) did not calculate post-construction runoff rates associated with the 2-year peak flow event, including incorporation of the proposed detention devices. An addendum letter to the Hydrology Report (Appendix G-2) calculated pre- and post-development runoff rates, but without detention. However, an additional addendum (Appendix G-3) demonstrates that post-detention runoff rates would remain less than or equal to pre-development runoff rates. As a result, implementation of the proposed project would not substantially alter the drainage pattern of the site, including the addition of impervious surfaces, in a manner that would substantially increase the rate or amount of surface runoff in a manner that would result in flooding on or off site. Impacts would be less than significant.

iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?

Less Than Significant Impact. As discussed in Sections 3.10(c)(i) and 3.10(c)(ii), unabated increased runoff rates could potentially create or contribute runoff water that would exceed the capacity of existing or planned stormwater drainage systems. However, runoff generated from the proposed project would be directed toward the west, where flows would be captured and treated through three proposed bio-retention basins and an underground detention basin. The combined capacity of the bioretention basins and the underground detention basin would reduce off-site runoff volumes to less than existing conditions. However, the initial Hydrology Report for the proposed project (Appendix G-1) did not calculate post-construction runoff rates associated with the 2-year peak flow event, including incorporation of the proposed detention devices. An addendum letter to the Hydrology Report (Appendix G-2) calculated pre- and post-development runoff rates, but without detention. However, an additional addendum (Appendix G-3) demonstrates that post-detention runoff rates would remain less than or equal to pre-development runoff rates. As a result, implementation of the proposed project would not substantially alter the drainage pattern of the site, including the addition of impervious surfaces, in a manner that would create or contribute runoff water that would exceed the capacity of existing or planned stormwater drainage systems.

As previously discussed in Section 3-10(a), a WQMP, which includes project-specific post-construction BMPs to address potential runoff and ongoing maintenance of on-site drainage improvements following construction and site paving, has been prepared for the project (Appendix H). Implementation of the WQMP would ensure compliance with established water quality standards during project operations. Therefore, through compliance with the Santa Ana MS4 permit and implementation of the project-specific WQMP, the proposed project would not provide substantial additional sources of polluted runoff as a result of paving and project operations. As such, impacts would be less than significant.

iv) impede or redirect flood flows?

Less Than Significant Impact. The project site is located within Zone X of the Federal Emergency Management Agency Flood Insurance Rate Map panel 06065C0785G, dated August 28, 2008 (FEMA 2008). Zone X represents areas of minimal flood hazard. Construction of the proposed project would not impede or redirect flood flows within a designated 100-year flood plain. Stormwater captured on-site would be treated, and directed to adjacent roadways, similar to existing conditions. Therefore, impacts would be less than significant.

d) In flood hazard, tsunami, or seiche zones, would the project risk release of pollutants due to project inundation?

No Impact. As discussed in Section 3.10(c)(iv), the proposed project is not within a 100-year flood zone (FEMA 2008). The project site is not located near the Pacific Ocean nor adjacent to a reservoir or body of water; therefore, there is no risk of tsunamis or seiches. In addition, the project site is not located within a potential dam inundation area (County of Riverside 2019). As such, there is no risk of release of pollutants due to project inundation and no impacts would occur.

e) Would the project conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?

No Impact. The project site is under the jurisdiction of the Santa Ana RWQCB, which has established water quality objectives and beneficial uses in the Santa Ana River Water Quality Control Plan (Basin Plan) for Timoteo Creek and the Santa Ana River, located downstream of the project site. These water quality objectives are intended for the reasonable protection of the present and probable beneficial uses of California inland water bodies including bays, estuaries, and groundwater. The City implements measures with the RWQCB and ensures compliance with the Basin Plan through requirements to obtain applicable NPDES permits. These requirements are outlined in Chapter 16.10 of the City's Municipal Code. As such, the proposed development project would not conflict with the Basin Plan and no impacts would occur.

In addition, as discussed in Section 3.10(b), the City of Calimesa is primarily served by groundwater from the San Timoteo Subbasin of the Beaumont Groundwater Basin. The San Timoteo Subbasin is classified as a low to very low priority with respect to groundwater basin prioritization under the Sustainable Groundwater Management Act. Currently, the non-adjudicated portion of the San Timoteo Subbasin is managed by the San Timoteo GSA, which coordinates with the Eastern Municipal Water District in managing a separate GSA in the southern non-adjudicated portion of the basin (California DWR 2021a, 2021b). Because the San Timoteo Subbasin is classified as a low to very low priority with respect to groundwater basin prioritization and because groundwater withdrawals would be completed in accordance with the GSAs, the project would not conflict with or obstruct implementation of a groundwater sustainability plan and no impacts would occur.

3.11 Land Use and Planning

		Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XI.	**LAND USE AND PLANNING** – Would the project:				
a)	Physically divide an established community?	☐	☐	☐	☒
b)	Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?	☐	☐	☒	☐

TPM 38215 would not result in any physical environmental changes or changes in zone or land use designation on the northern parcels. Therefore, there would be no impacts relative to land use or planning impacts on the northern parcels. Any future development proposed on the northern parcels would be subject to a separate land use and planning analysis and associated CEQA process as determined by the City. The following analysis focuses only on the Sandalwood Travel Center development on Parcel 3.

a) Would the project physically divide an established community?

No Impact. The proposed project site is designated for commercial development. Development of the project site with gasoline and diesel fueling positions, a convenience store, and a common area for customers would not physically disrupt or divide the arrangement of an established community. Existing roadways are adjacent to the west easy of the project site. The nearest residence is approximately 0.2 miles to the north. An existing commercial development is adjacent to the southern project site boundary. Connectivity between the project site and surrounding areas would be maintained, and no division of an established community would occur. Overall, no impact would occur.

b) Would the project cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?

Less Than Significant Impact. The proposed project is consistent with land use plans, policies, and regulations.

Regional Plans

SCAG is the Metropolitan Planning Organization for six counties: Riverside, Los Angeles, Orange, San Bernardino, Ventura, and Imperial. The proposed project would not be considered regionally significant by SCAG based on the established criteria in Section 15206 of the CEQA Guidelines, which is applied by SCAG to determine regional significance. Therefore, SCAG's regional plans and programs, including the 2016–2040 RTP/SCS are not applicable to the proposed project.

The project's consistency with regional plans and programs that address specific topical issues are discussed in the respective sections of this IS/MND. This includes but is not limited to the SCAQMD AQMP (refer to Section 3.3, Air Quality), Western Riverside MSHCP (refer to Section 3.4, Biological Resources), and the Santa Ana River Water Quality Control Plan (refer to Section 3.10, Hydrology and Water Quality). As

indicated in the analysis presented in this IS/MND, the proposed project would be consistent with the requirements outlined in these regional plans, including requirements in place to avoid or mitigate environmental effects.

City of Calimesa

The City of Calimesa General Plan and Zoning Ordinance define the permitted land uses and the corresponding development standards within the City. The project site is designated Community Commercial (C-C) in the General Plan Land Use Map (City of Calimesa 2014a) and the City's Zoning Districts (City of Calimesa 2014b). The General Plan land use and zoning designation for the project site and surrounding properties is shown on Figure 3. The proposed project will comply with all Zoning Code development and design standards for Commercial Zone Districts, outlined in Chapter 18.25 of the City's Municipal Code. A variance will be required for the installation of two (of the three) illuminated monument signs and to allow an 80-foot-tall freeway pylon with digital fuel pricing.

The Sandalwood Travel Center fuel dispensers and proposed sale of alcohol are conditionally permitted within the C-C zoning designation. A CUP is required for uses that are necessary and appropriate in the district but require specific consideration of the proposed use due to the use's unique character, including but not limited to, the possible effect of the use on public facilities or surrounding uses. In compliance with the City's Zoning Code, the applicant has applied to the City for CUPs for operation of fuel dispensers and the proposed sale of alcohol and the City will conduct discretionary review of the CUPs. The City would approve the CUP if they determine that the proposed land uses would not have an adverse effect on the surrounding area. The potential environmental impacts resulting from implementation of the proposed project, including impacts to surrounding uses, have been addressed throughout this Initial Study.

In summary, as presented in the analysis above and in the respective sections of this IS/MND, the proposed development project would not cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect.

3.12 Mineral Resources

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XII. MINERAL RESOURCES – Would the project:				
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	☐	☐	☐	☒
b) Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?	☐	☐	☐	☒

TPM 38215 would not result in any physical environmental changes on the northern parcels; therefore, it would not result in impacts to mineral resources on the northern parcels. Therefore, the following analysis focuses only on the Sandalwood Travel Center development on Parcel 3.

a) Would the project result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?

No Impact. The California Geological Survey has established a classification system to denote both the location (i.e., zone) and significance of key extractive mineral resources through classification of Mineral Resource Zones (MRZs). The proposed development project is mapped as MRZ-3, indicating that it is located in an area that contains mineral deposits, but the significance of these cannot be determined from available data. Although it is mapped as MRZ-3, there are no known mineral resource deposit sites within or near the project site (DOC 2015).

Construction of the proposed development project would require use of common construction materials, such as asphalt, concrete, and gravel. These materials are widely available throughout the region; therefore, the proposed project would not result in the loss of regionally or locally designated "significant" deposits of mineral resources required for project construction (i.e., deposits classified by the California Geological Survey as MRZ-2 or deposits listed as locally important on a general plan).

In addition, the project site is not located within an area known to be underlain by regionally or locally important mineral resources or within an area that has the potential to be underlain by regionally or locally important mineral resources (DOC 2015). Therefore, the proposed development project would not result in loss of a known mineral resource and no impact would occur.

b) Would the project result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?

No Impact. The project site is not located within an area known to be underlain by regionally or locally important mineral resources (DOC 2015). In addition, the proposed project would be developed on a 4.0-acre site with adjacent roadways on the western and eastern site boundaries and an existing commercial development directly to the south. As such, the existing land uses would preclude the use of the project site for future mining activities. Therefore, implementation of the proposed project would not result in the loss of availability of a locally important mineral resource recovery site and no impact would occur.

3.13 Noise

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XIII. NOISE – Would the project result in:				
a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	☐	☒	☐	☐
b) Generation of excessive groundborne vibration or groundborne noise levels?	☐	☐	☒	☐
c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?	☐	☐	☐	☒

TPM 38215 would not result in any physical environmental changes on the northern parcels; therefore, it would not result in impacts relative to noise on the northern parcels. Any future development proposed on the northern parcels would be subject to a separate noise analysis and associated CEQA process as determined by the City. The following analysis focuses only on the proposed Sandalwood Travel Center development on Parcel 3, based on the noise modeling results, Appendix I, and the Traffic Impact Assessment (TIA), Appendix J-1, to this IS/MND.

3.13.1 Noise Characteristics and Terminology

Pressure fluctuations, traveling as waves through air from a source, exert a force perceived by the human ear as sound. Sound pressure level (referred to as sound level) is expressed by way of a logarithmic scale in decibels (dB) that represent magnitude of these air pressure waves with respect to the threshold of average human hearing. The human ear is more sensitive to middle and high frequencies, especially when the noise levels are quieter; thus, to accommodate for this phenomenon, a weighting system was developed to mimic this human hearing frequency response. The frequency weighting called the “A” scale is typically used for typical environmental sound levels, which de-emphasizes the low frequency components of the sound in a manner similar to the response of a human ear. This A-weighted sound level is also often referred to as the “noise level” and is referenced in units of dBA. In a manner similar to the scaling of temperature on a thermometer, Table 17 provides examples of common indoor and outdoor sound sources having A-weighted levels that “line-up” with the listed dB values.

The equivalent noise level L_{eq}, also referred to as the energy-average sound level, is a single number representing the fluctuating sound level in decibels (dB) over a specified period of time. It is a sound-energy average of the fluctuating level and is equal to a constant unchanging sound of that dB level. Community noise sources vary continuously, being the product of many noise sources at various distances, all of which in aggregate tend to constitute a relatively stable background sound environment. This background, added to perceptibly dominant

acoustical contributors (i.e., those that are the loudest and/or closest to the listener position) makes the "ambient" sound that a sound level meter can detect with its microphone and quantify as a dB level.

Table 17. Typical Sound Levels in the Environment and Industry

Common Outdoor Activities	Noise Level (dB)	Common Indoor Activities
—	110	Rock band
Jet flyover at 300 meters (1,000 feet)	100	—
Gas lawn mower at 1 meter (3 feet)	90	—
Diesel truck at 15 meters (50 feet), at 80 kph (50 mph)	80	Food blender at 1 meter (3 feet) Garbage disposal at 1 meter (3 feet)
Noisy urban area, daytime gas lawn mower at 30 meters (100 feet)	70	Vacuum cleaner at 3 meters (10 feet)
Commercial area Heavy traffic at 90 meters (300 feet)	60	Normal speech at 1 meter (3 feet)
Quiet urban daytime	50	Large business office Dishwasher, next room
Quiet urban nighttime	40	Theater, large conference room (background)
Quiet suburban nighttime	30	Library
Quiet rural night time	20	Bedroom at night, concert hall (background)
—	10	Broadcast/recording studio
Lowest threshold of human hearing	0	Lowest threshold of human hearing

Source: Caltrans 2013.
Notes: dB = decibels; kph = kilometers per hour; mph = miles per hour.

Exterior Noise Distance Attenuation

Stationary operating equipment or slow-moving (or idling) vehicles within a spatially limited area at a given time can be considered "point sources" emitting noise that typically diminishes (attenuates) at a rate of 6.0 dBA for each doubling of distance from the source to the receptor at acoustically "hard" sites and at a rate of 7.5 dBA for each doubling of distance from source to receptor at acoustically "soft" sites. These attenuation rates would also be expected for sound propagation away from a horizontal area source, which can be approximated as a single point such as the geographic center of the area. Acoustically hard or otherwise acoustically reflective surfaces do not provide any excess ground-effect attenuation and are characteristic of sealed asphalt roads, bodies of water, and hard-packed soils. This means the attenuation experienced for hard-surface conditions is attributed only to "geometric divergence" that yields the aforementioned 6.0 dB per doubling of distance from a point source. An acoustically soft or absorptive surface, on the other hand, is exemplified by fresh-fallen snow, soft sand, tilled soils, or thickly vegetated ground cover and accounts for the higher attenuation rate (7.5 dB per doubling) with increasing distance from the source of sound emission.

Sound propagation between a source and a receptor position can further be attenuated by the presence of path-intervening man-made or natural barriers. The amount of attenuation varies with the degree of sound path occlusion and the proximity of the barrier to the source or the receptor. The air medium that conveys sound is acoustically absorptive as well, but the added sound attenuation effect—apart from geometric divergence already introduced—

is greatly dependent on acoustical frequency and typically requires large distances between a source and the receptor to be meaningful.

3.13.2 Applicable Noise Regulations

Noise standards for the City of Calimesa are established primarily by the Noise Element of the City of Calimesa General Plan. The Noise Element includes standards for land use compatibility for community noise exposure. Residential uses are normally unacceptable in areas exceeding 70 dBA community noise equivalent level (CNEL) and conditionally acceptable between 60 to 70 dBA CNEL for single family and 65 to 70 dBA CNEL for multi-family units. Commercial/office buildings are normally unacceptable in areas exceeding 75 dBA CNEL and conditionally acceptable within 67 to 78 dBA CNEL.

Transportation Related Noise Standard

In community noise assessment, changes in noise levels greater than 3 dBA are often identified as "barely perceptible," while changes of 5 dBA are "readily perceptible" (Caltrans 2013). For purposes of this study, roadway noise impacts would be considered significant if the project increases noise levels for a noise-sensitive land use by 3 dBA CNEL and if (1) the existing noise levels already exceed the 65 dBA CNEL residential standard or (2) the project increases noise levels from below the 65 dBA CNEL standard to above 65 dBA CNEL.

Exterior Non-Transportation Related Noise Standard

The City of Calimesa noise ordinance limits the noise levels from non-transportation sources at residential uses to 55 dBA from the hours of 10:00 p.m. to 7:00 a.m. and to 65 dBA from the hours of 7:00 a.m. to 10:00 p.m.

Standard for Temporary Noise Sources (Construction-Related Noise)

According to Section 8.15.080 of the Calimesa Municipal Code, construction activities are prohibited between 7:00 p.m. and 7:00 a.m. on weekdays, and between 5:00 p.m. and 10:00 a.m. on weekends and federal holidays. In addition, the 8-hour average noise level during permissible construction hours is limited to 75 dBA L_{eq} when such noise could affect a residential land use. In terms of construction noise levels as compared to ambient levels, given that a 10 dB increase is perceived as a doubling of the sound level, construction noise that would exceed ambient noise levels by at least 10 dB would be readily identified separate from ambient levels, and could therefore result in annoyance at noise-sensitive receivers. Particularly at night, noise levels greater than 10 dB over ambient conditions could easily result in sleep disturbance at residences.

Existing Ambient Noise Levels

Dudek employed the Federal Highway Administration (FHWA) Traffic Noise Model using average daily traffic data provided in the TIA (Appendix J-1) to determine ambient noise levels at selected noise-sensitive receiver locations. The receptors are close enough to the roadways in each case that roadway traffic represents the dominant noise source at the receivers. Table 18 provides the modeled ambient noise levels at noise-sensitive receptors that could be impacted by noise from construction or operation of the project.

Table 18. Existing Ambient Noise Levels at Selected Receivers (dBA)

Receiver	Daytime L_{eq}	Nighttime L_{eq}	CNEL	Distance from Project Site (feet)
Calimesa Inn	57	48	57	835
Sandalwood East of Calimesa	62	53	62	1,075
Calimesa South of Sandalwood	64	56	65	2,970
Villa Calimesa /7th	55	46	57	975

Notes: "Selected receiver" is synonymous with "sensitive receptor."
dBA = A-weighted sound pressure level; L_{eq} = equivalent continuous sound level; CNEL = community noise equivalent level.

a) Would the project result in generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

Construction Noise (Temporary)

Less Than Significant Impact with Mitigation Incorporated. The construction activities for the proposed Sandalwood Travel Center development project would include site preparation, grading and trenching of the site, building construction, paving of the on-site driveways and parking areas, and application of architectural coatings. Noise impacts from construction activities are a function of the noise generated by construction equipment, equipment location, and sensitivity of nearby land uses, and the timing and duration of the construction activities. The nearest noise-sensitive land use to the project site is the Calimesa Inn, located approximately 835 feet east (across I-10). The closest residences are located approximately 975 feet to the north and approximately 1,075 feet east of the development project.

Construction noise is difficult to quantify because of the many variables involved, including the specific equipment types, size of equipment used, percentage of time, condition of each piece of equipment, and number of pieces of equipment that will actually operate on site. The range of maximum noise levels for various types of construction equipment at a distance of 50 feet is depicted in Table 19. The noise values represent maximum noise generation, or full-power operation of the equipment. As an example, a loader and two dozers, all operating at full power and relatively close together, would generate a maximum sound level of approximately 90 dBA at 50 feet from their operations. As one increases the distance between equipment, and/or the separation of areas with simultaneous construction activity, dispersion and distance attenuation reduce the effects of separate noise sources added together. In addition, typical operating cycles may involve 2 minutes of full-power operation, followed by 3 or 4 minutes at lower levels. The average noise level during construction activity is generally lower, because maximum noise generation may only occur up to 50% of the time. Noise levels from construction operations decrease at a rate of approximately 6 dB per doubling of distance from the source.

Table 19. Construction Equipment Noise Emission Levels

Equipment	Typical Sound Level (dBA) 50 Feet from Source
Roller	74
Concrete vibrator	76
Pump	76
Saw	76
Backhoe	80

Table 19. Construction Equipment Noise Emission Levels

Equipment	Typical Sound Level (dBA) 50 Feet from Source
Air compressor	81
Generator	81
Compactor	82
Concrete pump	82
Crane, mobile	83
Concrete mixer	85
Dozer	85
Grader	85
Impact wrench	85
Loader	85
Pneumatic tool	85
Jackhammer	88
Truck	88
Paver	89

Source: FHWA 2008.
Note: dBA = A-weighted sound pressure level.

FHWA's Roadway Construction Noise Model (RCNM) (FHWA 2008) was used to estimate construction noise levels at the noise-sensitive land uses described above. Although the model was developed by FHWA, RCNM is often used for non-roadway projects, because the same types of construction equipment used for roadway projects are also used to construct other project types. Input variables for RCNM consist of the receiver/land use types, the equipment type and number of each (e.g., two graders, a loader, a tractor), the duty cycle for each piece of equipment (e.g., percentage of each hour the equipment typically works per day), and the distance between the construction activity and noise-sensitive receivers. No topographical or structural shielding was assumed in the modeling of construction noise (i.e., the receivers are modeled with no obstacles to the travel of sound between the construction activity and receiver location, which is a worst-case assumption).

The noise levels from the proposed construction activities are summarized in Table 20. The complete set of RCNM input and output data for construction noise is provided in Appendix I. As shown, at the nearest sensitive receptor (Calimesa Inn), noise levels would range from approximately 49 to 62 dBA L_{eq} when construction is taking place at or near the project site boundary. At the closest residences (approximately 975 feet north of the project, along Villa Calimesa and 7th Street) construction noise levels would range from approximately 68 to 78 dBA L_{eq} when construction is taking place at or near the project site boundary. According to the construction noise levels presented in Table 20 reported for the closest residences to the project, construction noise levels would be well below the maximum 75 dBA 8-hour average construction noise level (the 1-hour average of 78 dBA L_{eq} if held constant over an 8-hour work day would equate to a 78 dBA 8-hour average). Daytime construction noise levels would therefore be compliant with Calimesa Municipal Code Section 8.15.080.

Table 20. Construction Noise Model Results Summary Compared to Ambient

Construction Phase	Construction Noise at Representative Receivers (dBA L_{eq})		
	Calimesa Inn	Villa Calimesa/7th Street	Sandalwood East of Calimesa
Site Preparation	61	59	58
Grading	61	60	59
Building Construction	62	60	59
Paving	60	58	57
Architectural Coating	49	48	47
Ambient: Day/Night	**57/48**	**64/56**	**62/53**

Source: Appendix I.
Notes: dBA = A-weighted sound pressure level; L_{eq} = equivalent continuous sound level.

As presented in Table 20, the highest noise levels are predicted to occur during building construction when noise levels from construction activities would be as high as 62 dBA L_{eq} at the closest motel, and approximately 60 dBA L_{eq} at the closest residences. During the day, construction noise levels at vicinity noise-sensitive land uses would not be expected to exceed ambient noise levels by more than 5 dB. While the daytime construction noise could be noticeable, it would not be anticipated to disrupt normal activities at the residential properties or result in significant impacts, as it would be well below the 10 dB increase significance threshold. Therefore, daytime construction noise impacts would be less than significant. If construction occurred at night, the construction noise levels could be between 4 and 14 dB over ambient levels. At the high end of this range, not only would construction noise in the nighttime period be perceived as up to twice as loud as ambient noise, but the construction noise could result in sleep interruption in that period. Therefore, construction at night could result in potentially significant noise impacts. **MM NOI-1** would be required in order to reduce such impacts to less than significant.

With implementation of mitigation measure **MM NOI-1**, construction-related noise levels would not exceed any standards and would not be substantially higher than existing ambient noise levels (as shown in Table 20). Therefore, temporary construction-related noise impacts for the proposed project would be less than significant with mitigation incorporated.

Off-Site Traffic Noise

Less Than Significant Impact. The proposed project would generate traffic along adjacent roadways including 7th Street (from the project location southward), Sandalwood Drive, Calimesa Boulevard, 5th Street, and I-10. Potential noise effects from vehicular traffic were assessed using the FHWA Traffic Noise Model Version 2.5 (FHWA 2004). Information used in the model included the site geometry; posted traffic speeds for modeled roadways; and existing, existing plus project, background growth through 2022 without project, background growth through 2022 plus project, cumulative buildout without project, and cumulative buildout plus project traffic volumes (Appendix J-1).

Based upon roadway segments with project trip contributions, noise levels were modeled at representative noise-sensitive receivers including the Calimesa Inn (Calimesa Boulevard north of Sandalwood Drive), residences on the east side of Calimesa Boulevard south of Sandalwood Drive, and residences along Sandalwood Drive/5th Street east of Calimesa Boulevard. Note there are no sensitive receivers along 7th Street south of the project, and project traffic contributions to I-10 would be less than 1% of existing (and therefore would have no effect); therefore, traffic increases along these roadway segments were not modeled.

The receivers were modeled to be 5 feet above the local ground elevation. Spreadsheets containing the inputs and outputs for the traffic noise modeling are contained in Appendix J-1. The City does not have a specific criterion for evaluating the significance of project-related increases in off-site traffic noise levels at residences or noise-sensitive areas. For the purposes of this analysis, traffic noise level increases are considered significant if they exceed ambient traffic noise levels by three dB or more, or cause noise levels to exceed the 65 dBA CNEL noise threshold (where the noise level is not currently at 65 dBA CNEL). Noise levels in Table 21 are reported with values to the tenth of a decibel to demonstrate the very small changes in noise levels attributable to project traffic contributions; it is important to note the human ear cannot detect changes less than 1 dB. The noise model results are summarized in Table 21.

Table 21. Off-Site Traffic Noise Modeling Results

Modeled Receptor	Existing Noise Level (dBA CNEL)	Existing with Project Noise Level (dBA CNEL)	Back-ground Growth to 2020 Without Project (dBA CNEL)	Back-ground Growth to 2020 with Project (dBA CNEL)	Build-out Without Project Noise Level (dBA CNEL)	Build-out with Project Noise Level (dBA CNEL)	Maximum Project Related Noise Level Increase (dB)
Calimesa Inn	57.5	57.6	57.8	57.9	59.3	59.4	0.1
Sandalwood East of Calimesa	62.4	62.8	63.0	63.3	63.3	63.6	0.4
Calimesa South of Sandalwood	56.6	56.8	57.2	57.2	56.3	56.6	0.3

Source: Appendix I.
Notes: dBA = A-weighted sound pressure level; CNEL = community noise equivalent level.

Table 21 shows that the maximum noise level increase would be well below 1 dB. A change in noise level of 1 dB in an outdoor environment is not an audible change, in the context of community noise. Based upon these results, off-site traffic noise impacts associated with the proposed project would be less than significant. No mitigation is required.

On-Site Operational Noise

Less Than Significant Impact. A Dudek-proprietary noise prediction model using Microsoft Excel was used to predict the aggregate sound propagation from the Sandalwood Travel Center Project's major anticipated stationary producers of noise emissions. The outdoor noise propagation formulas incorporated into the Excel-based spreadsheet model adhere to several accepted standards, including the International Organization of Standardization Standard 9613-2, "Attenuation of Sound During Propagation Outdoors, Part 2: General Method of Calculation" (ISO 1996). The stationary noise model was set up to predict the hourly average (L_{eq} hour) noise levels from facility operation, which assumes all noise sources are continuously operating for the entire hour (which is conservative). In addition, structures or topography present between the project site and surrounding receiver areas are not included in the model, which again produces very conservative results.

Table 22 presents the reference sound levels for the individual sources considered in the on-site stationary noise prediction model.

Table 22. Stationary Noise Prediction Model Source Sound Levels

Source	Reference Sound Pressure Level (dBA)	Distance (in Feet) for Reported Sound Pressure
Truck Parking/Maneuver Area[a]	66	35
Retail Parking Lot[b]	47	3.3
Trane 5-Ton HVAC package unit[c]	64	3.3
Gas/Diesel Dispenser[d]	65	3

Sources:
[a] Mestre Greve Associates.
[b] Journal of Environmental Engineering and Landscape Management.
[c] Trane.
[d] Noise Navigator™ Sound Level Database.
Note: dBA = A-weighted sound pressure level.

Figure 7, Operational Noise, illustrates the predicted noise contours extending outward from the project site, based upon the above-described stationary noise modeling. Noise levels from 60 to 70 dBA L_{eq} (suitable for commercial land uses) would be limited to the project site, adjacent roadway rights-of-way (including I-10 and 7th Street), and up to approximately 60 feet north from the northern project boundary (an area with current ambient noise levels already up to approximately 70 dBA CNEL associated with I-10).

With regard to project stationary noise levels at vicinity noise-sensitive land uses, the modeling predicts that operational noise levels at the closest noise-sensitive receivers would be no greater than 35 to 40 dBA L_{eq}. Project operational noise levels would therefore be well below municipal code limits for non-transportation sources affecting residential land uses of 65 dBA (daytime) and 55 dBA (nighttime). Operational noise levels would also be less than the ambient noise levels during daytime and nighttime periods at the selected noise-sensitive receivers addressed with the modeling. Therefore, project stationary noise levels would result in less than significant noise impacts.

Mitigation Measures

MM NOI-1 Construction activities for the project shall take place during the permitted time and day per Chapter 8.15.080 of the City's Municipal Code. The applicant shall ensure that construction activities are limited to the hours between 7:00 a.m. and 7:00 p.m. weekdays and between 10:00 a.m. and 5:00 p.m. on Saturdays and Sundays and federal holidays. This condition shall be listed on the final construction plans for the proposed project to the satisfaction of the City of Calimesa Planning Department.

b) Would the project result in generation of excessive groundborne vibration or groundborne noise levels?

Less Than Significant Impact. The main concern associated with ground-borne vibration is annoyance; however, in extreme cases, vibration can cause damage to buildings, particularly those that are old or otherwise fragile. Some common sources of ground-borne vibration are trains, and construction activities such as blasting, pile-driving, and heavy earthmoving equipment. The proposed project would not generate any substantial long-term (operational) new sources of vibration; the primary source of ground-borne vibration occurring as part of the proposed project would be short-term construction activity.

Ground-borne vibration information related to construction activities has been collected by Caltrans (Caltrans 2020). Information from Caltrans indicates that transient vibrations (such as construction activity)

of approximately 0.035 inches per second (in/sec) peak particle velocity (PPV) may be characterized as barely perceptible, and vibration levels of 0.24 in/sec PPV may be characterized as distinctly perceptible by people. Caltrans identifies a threshold for structural building damage, which typically occurs at vibration levels of 0.5 in/sec PPV or greater for buildings of reinforced-concrete, steel, or timber construction, or 0.2 in/sec PPV for typical residential construction.

The most important equipment relative to generation of vibration, and the vibration levels produced by such equipment, is illustrated in Table 23. Large bulldozers and loaded trucks would produce the highest level of vibration during construction of the proposed project. The closest noise-sensitive receiver (a motel) to the construction area for the project is approximately 835 feet away (east of I-10), while the closest residences are approximately 975 feet (north) and 1,085 feet (east).

Table 23. Vibration Velocities for Typical Construction Equipment

Equipment	PPV at 25 Feet (Inches Per Second)
Large Bulldozer	0.089
Loaded Trucks	0.076
Drill Rig/Auger	0.089
Jackhammer	0.035
Small Bulldozer	0.003

Source: Caltrans 2013.
Note: PPV = peak particle velocity.

As shown in Table 23, a large bulldozer generates vibration levels of 0.089 in/sec PPV at a distance of 25 feet, while a loaded truck generates vibration levels of 0.076 in/sec PPV at a distance of 25 feet. The existing commercial structure on the adjacent parcel to the south would be no closer than 25 feet from the boundary of the project construction activity. Therefore, ground vibration from the project construction would remain well below the damage threshold of 0.5 in/sec PPV for commercial structures. The nearest residences to the project construction activity would be approximately 975 feet from ground disturbance (use of a bulldozer) and could experience vibration levels of 0.0004 inches per second PPV during bulldozer operations. Vibration levels at these residential receptors would not exceed the Caltrans building damage threshold of 0.2 inches per second PPV for even fragile or historic structures. These vibration levels would also be well below the level considered barely perceptible to people (0.035 in/sec PPV), and therefore should generally not be discernible to area residents. While some people who are particularly sensitive to vibration may perceive some vibration episodes during certain construction activities, vibration levels would not be anticipated to reach annoyance levels for residents in the vicinity of the project. Ground-borne vibration would not be associated with the proposed project following construction activities. Impacts related to ground-borne vibration would be less than significant. No mitigation is required.

c) ***For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?***

No Impact. The proposed project would not expose people residing or visiting in the project area to excessive noise levels from aircraft. The nearest public airports are Redlands Municipal Airport (8 miles northwest) and Banning Municipal Airport (12.5 miles southeast). There are no private airports in the vicinity of the project site. As such, no impacts from airport/aircraft noise would occur. No mitigation is required.

3.14 Population and Housing

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XIV. POPULATION AND HOUSING – Would the project:				
a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?	☐	☐	☒	☐
b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?	☐	☐	☐	☒

TPM 38215 would not result in any physical environmental changes on the northern parcels; therefore, it would not result in impacts relative to population and housing on the northern parcels and/or the surrounding areas. Any future development proposed on the northern parcels would be subject to a separate analysis and associated CEQA process as determined by the City. The following analysis focuses only on the Sandalwood Travel Center development on Parcel 3.

a) ***Would the project induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?***

Less Than Significant Impact. The proposed development project would include development of the site in accordance with the land use designation applied to the site by the City of Calimesa General Plan (i.e., Community Commercial). While the proposed development project would generate new employment opportunities (15 employees), the proposed project would not result in growth that was not already anticipated by the City and evaluated in the SCAG RTP/SCS. Furthermore, the development project site is served by existing public roadways and utility infrastructure already installed beneath public right-of-way that abuts the property. Accordingly, the proposed development project would not induce direct or indirect substantial growth in the area, and impacts would be less than significant.

b) ***Would the project displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?***

No Impact. The development project site is composed of vacant, disturbed land. As such, development of the proposed project would not displace any people or substantial numbers of housing and would not necessitate the construction of replacement housing elsewhere. No impact would occur.

3.15 Public Services

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XV. PUBLIC SERVICES				
a) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services:				
i) Fire protection?	☐	☐	☒	☐
ii) Police protection?	☐	☐	☒	☐
iii) Schools?	☐	☐	☐	☒
iv) Parks?	☐	☐	☐	☒
v) Other public facilities?	☐	☐	☐	☒

TPM 38215 would not result in any physical environmental changes on the northern parcels; therefore, it would not result in impacts relative to public services on the northern parcels. Any future development proposed on the northern parcels would be subject to a separate analysis and associated CEQA process as determined by the City. The following analysis focuses only on the Sandalwood Travel Center development on Parcel 3.

a) ***Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services:***

Fire protection?

Less Than Significant Impact. Fire protection services with the City are provided by the City's Fire Department, established in 2017. Prior to establishment of the City's Fire Department, the City contracted with Riverside County for fire services since its incorporation in 1990. The City is served by the Calimesa Fire Station, located approximately 0.6 miles northeast of the project site, at 906 Park Avenue.

Although implementation of the development project would not involve new residential uses or an increase in the City's population, the operation of new commercial uses would increase the demand for fire protection, prevention, and emergency medical services at the currently undeveloped project site. The development project would create the typical range of service calls for commercial developments, such as medical aid, fire response, traffic collisions, and hazardous materials. The proposed development project has been designed in compliance with all applicable ordinances and standard conditions established by the City and state including, but not limited to, those regarding fire prevention and suppression measures, such as fire hydrants, fire access, emergency exits, combustible construction, fire flow, and fire sprinkler systems. Compliance with applicable regulations would be confirmed by the Fire Department during its review of development plans to ensure it has the capacity to provide proper fire protection to the development.

The development of the proposed development project would not cause fire staffing, facilities, or equipment to operate at a deficient level of service. In addition, the development applicant would be required to pay Developer Impact Fees, which provides a funding source for construction of fire facilities as a result of impacts related to future growth in the City. The proposed development project would create an incremental demand for fire protection services but would not require the construction of new or expanded fire protection facilities. Therefore, impacts would be less than significant.

Police protection?

Less Than Significant Impact. The City of Calimesa provides law enforcement services through a service contract with the Riverside County Sheriff's Department. The County Sheriff's station providing services to the Calimesa area is located at 50290 Main Street in Cabazon. The Cabazon Station also serves the unincorporated pass area around Beaumont and Banning, and the unincorporated areas of Cabazon, Cherry Valley, Poppet Flats, San Gorgonio, San Timoteo Canyon, Twin Pines, and Whitewater (City of Calimesa 2014d).

The proposed development project would introduce a travel center, including employees and visitors to the project site. Proposed development would result in an incremental increase in demand for police protection services, but it is not anticipated to require or result in the construction of new or physically altered police facilities. Furthermore, the development applicant would be required to contribute Developer Impact Fees, which would ensure the proposed project, would provide fair share funds for the provision of additional police protection services, which may be applied to sheriff facilities and/or equipment, to offset the incremental increase in the demand that would be created by the project. Therefore, the proposed development project's incremental demand for sheriff protection services would be less than significant with the development applicant's mandatory payment of Developer Impact Fees.

Schools?

No Impact. The development project site is within the Yucaipa–Calimesa Joint Unified School District. The proposed development project would not create a direct demand for school services, as the project involves non-residential uses that would not generate any school-aged children. The proposed development project would generate a minimal number of employment opportunities, and it is expected these positions would be filled by the local labor force. Therefore, the proposed development project would not generate a substantial number of new residents nor generate school-aged students requiring public education. As such, the development project would not cause or contribute to a need to construct new or physically altered public school facilities.

Although the proposed project would not create a direct demand for additional public school services, the development applicant would be required to contribute developer fees to the Yucaipa–Calimesa Joint Unified School District in compliance with Section 65995(b) of the California Government Code. Payment of developer fees allows the school district to collect fees from new developments to offset the costs associated with increasing school capacity needs. Mandatory payment of developer fees would be required prior to the issuance of building permits, and no impact would occur.

Parks?

No Impact. The proposed project does not include construction of new residential uses that could result in population growth within the City of Calimesa. Thus, the proposed project would not create a demand for public park facilities and would not result in the need to modify existing or construct new park facilities. Accordingly, implementation of the proposed project would not adversely affect any park facility and no impact would occur.

Other public facilities?

No Impact. The proposed development project does not include construction of new residential uses that could result in population growth within the City of Calimesa. Thus, the proposed development project would not create a demand for other public facilities/services, including libraries, community recreation centers, public health facilities, and/or animal shelters. As such, implementation of the proposed development project would not adversely affect other public facilities or require the construction of new or modified public facilities; no impact would occur

3.16 Recreation

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XVI. RECREATION				
a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	☐	☐	☐	☒
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	☐	☐	☐	☒

TPM 38215 would not result in any physical environmental changes on the northern parcels; therefore, it would not result in impacts relative to the northern parcels and/or the surrounding areas. Any future development proposed on the northern parcels would be subject to a separate analysis and associated CEQA process as determined by the City. The following analysis focuses only on the Sandalwood Travel Center development on Parcel 3.

a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?

No Impact. The proposed development project would include development of Community Commercial land uses. The proposed project does not propose any type of residential use or other land use that would generate population growth that would increase the use of existing neighborhood and regional parks or other recreational facilities. Accordingly, implementation of the proposed development project would not result in construction or expansion of recreational facilities and no impact would occur.

b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?

No Impact. The proposed development project does not include construction of any new on- or off-site recreation facilities. In addition, the proposed development project would not include expansion of any existing off-site recreational facilities. Accordingly, implementation of the proposed project would not result in the increased use or substantial physical deterioration of an existing neighborhood or regional park; no impact would occur.

3.17 Transportation

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XVII. TRANSPORTATION – Would the project:				
a) Conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities?	☐	☐	☒	☐
b) Conflict or be inconsistent with CEQA Guidelines Section 15064.3, subdivision (b)?	☐	☐	☒	☐
c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	☐	☐	☐	☒
d) Result in inadequate emergency access?	☐	☐	☒	☐

TPM 38215 would not result in any physical environmental changes on the northern parcels; therefore, it would not result in impacts relative to transportation on the northern parcels. Any future development proposed on the northern parcels would be subject to a separate transportation analysis and associated CEQA process as determined by the City. The following analysis focuses only on the proposed Sandalwood Travel Center development on Parcel 3, based on the TIA prepared for the proposed development project (Appendix J-1) and a follow-up Trip Generation Comparison Analysis (Appendix J-2). In addition, the TIA and Trip Generation Comparison analysis were reviewed and Ganddini provided detailed responses to City comments contained in Appendix J-3.

The transportation study area consists of intersections where the proposed development project is expected to contribute 50 or more peak hour trips with classification of “Collector” or “Collector” and above, that are all located within the City of Calimesa and Caltrans jurisdictions. Table 24 summarizes the study area intersections analyzed in the TIA.

Table 24. Transportation Study Area

Study Intersections	Jurisdiction
1. 7th Street at Project North Driveway	City of Calimesa
2. 7th Street at Project Central Driveway	City of Calimesa

Table 24. Transportation Study Area

Study Intersections	Jurisdiction
3. 7th Street at Project South Driveway	City of Calimesa
4. 7th Street at Sandalwood Drive	City of Calimesa
5. I-10 SB Ramps at Sandalwood Drive	Caltrans
6. I-10 NB On-Ramp at Sandalwood Drive	Caltrans
7. Calimesa Blvd at Sandalwood Drive	City of Calimesa
8. I-10 NB Off-Ramp at Calimesa Boulevard	Caltrans

Source: Appendix J-1.
Notes: SB = southbound; Caltrans = California Department of Transportation; NB = northbound.

To assess the performance of an intersection, the City of Calimesa uses the intersection delay method based on procedures contained in the Highway Capacity Manual (NASEM 2022). Level of service (LOS) analysis is performed for assessing General Plan operational conformance within the approving agency's discretionary authority. The intersection control delay is then correlated to LOS based on the thresholds included in Table 25.

Table 25. Level of Service Thresholds

Level of Service	Intersection Control Delay (Seconds/Vehicle)	
	Signalized Intersection	Unsignalized Intersection
A	≤ 10.0	≤ 10.0
B	> 10.0 to ≤ 20.0	> 10.0 to ≤ 15.0
C	> 20.0 to ≤ 35.0	> 15.0 to ≤ 25.0
D	> 35.0 to ≤ 55.0	> 25.0 to ≤ 35.0
E	> 55.0 to ≤ 80.0	> 35.0 to ≤ 50.0
F	> 80.0	> 50.0

Source: Appendix J-1.

a) Would the project conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities?

Less Than Significant Impact. The proposed development project would be designed to comply with applicable plans, ordinances and policies that establish measures of effectiveness for the performance of the circulation system. The proposed project is forecast to generate a total of approximately 2,658 daily trips, including 243 trips during the AM peak hour and 220 trips during the PM peak hour (Appendix J-2). Table 26 includes a summary of the intersection LOS analysis for each scenario evaluated in the TIA.

Table 26. Summary of Intersection Level of Service

Study Intersection	Peak Hour Delay – LOS[1,2,3]									
	Existing		Background Conditions		Background Conditions Plus Project		Cumulative No Project		Cumulative Plus Project	
	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
1. 7th Street at Project North Driveway	—	—	—	—	10.6-B	10.6-B	—	—	10.3-B	11.7-B

Table 26. Summary of Intersection Level of Service

Study Intersection	Peak Hour Delay – LOS[1,2,3]									
	Existing		Background Conditions		Background Conditions Plus Project		Cumulative No Project		Cumulative Plus Project	
	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
2. 7th Street at Project Central Driveway	—	—	—	—	10.9-B	10.8-B	—	—	10.4-B	11.5-B
3. 7th Street at Project South Driveway	—	—	—	—	0-A	0-A	—	—	0-A	0-A
4. 7th Street at Sandalwood Drive	8.4-A	7.9-A	9.3-A	9-A	11-B	10.4-B	1.9-A	4.7-A	4.4-A	7.5-A
5. I-10 South-Bound Ramps at Sandalwood Drive	14.5-B	11.2-B	17.5-C	13.7-B	25.4-D	17.7-C	19.3-B	20.9-C	18.6-B	21.6-C
6. I-10 North-Bound On-Ramp at Sandalwood Drive	10.8-B	8.9-A	11.9-B	9.5-A	13.1-B	10.2-B	0-A	0-A	0-A	0-A
7. Calimesa Boulevard at Sandalwood Drive	26.3-C	19.4-B	27.4-C	20.5-C	28.6-C	21.4-C	27.9-C	43-D	29.6-C	53.5-D
8. I-10 North-Bound Off-Ramp at Calimesa Blvd	17.5-C	9.6-A	23.1-C	10.5-B	32-D	11.3-B	29.3-C	41.9-D	32.9-C	50.4-D

Source: Appendix J-1.
Notes:
1 Delay is shown in seconds per vehicle. For intersections with traffic-signal or all-way stop control, overall average intersection delay and LOS are shown. For intersections with cross-street stop control, LOS is based on average delay of the worst individual lane (or movements sharing a lane).
2 LOS = Level of Service
3 LOS is based on a higher trip generation analyzed in the Traffic Impact Assessment (Appendix J-1), and therefore represents a conservative analysis.

As shown in Table 26, the TIA prepared for the project concluded that the proposed development project would not result in additional intersection delays that would exceed the City's minimum peak hour LOS D, established by General Plan Policy TM-7. Impacts would be less than significant.

b) Would the project conflict or be inconsistent with CEQA Guidelines Section 15064.3, subdivision (b)?

Less Than Significant Impact. In the fall of 2013, SB 743 was passed by the legislature and signed into law by the Governor. Delay-based metrics such as roadway capacity and level of service are no longer the performance measures used for the determination of the transportation impacts of projects in studies conducted under CEQA. Vehicle miles traveled (VMT) is now the applicable method for evaluation transportation impacts under CEQA.

A VMT assessment was performed as part of the TIA prepared for the proposed development project. The Calimesa Transportation Impact Analysis Guidelines for Vehicle Miles Traveled and Level of Service Assessment state that the following activities generally will not require detailed VMT analysis based on substantial evidence provided in the OPR Technical Advisory on Evaluating Transportation Impacts in CEQA (OPR 2018) supporting SB 743 implementation or are related to projects that are local serving which, by

definition, would decrease the number of trips or the distance those trips travel to access the development (and are therefore VMT reducing projects):

- Projects located in a Transit Priority Area (TPA) (as defined in the City guidelines)
- Projects located in a low-VMT-generating area (as defined later in the City guidelines)
- Local-serving K–12 schools
- Local parks
- Daycare centers
- Local-serving gas stations
- Local-serving banks
- Local-serving hotels (e.g., non-destination hotels)
- Student housing projects
- Local-serving medical facilities
- Local-serving community colleges that are consistent with the assumptions noted in the RTP/SCS
- Projects generating fewer than 110 daily vehicle trips. This generally corresponds to the following "typical" development potentials:
  - 11 single-family housing units
  - 16 multi-family, condominium, or townhouse housing units
  - 10,000 square feet of office
  - 15,000 square feet of light industrial
  - 63,000 square feet of warehousing
  - 79,000 square feet of high-cube transload and short-term storage warehouse

The Technical Advisory contains guidance indicating that local-serving retail, defined as less than 50,000 square feet, would typically shorten trips and reduce VMT. New retail development typically redistributes shopping trips rather than creating new trips. By adding retail opportunities into the urban fabric and thereby improving proximity, local-serving retail tends to shorten trips and reduce VMT.

The development project proposes local-serving retail uses that include fueling dispensers, a convenience store with a drive-through, and a common area for customers. The proposed development project is a travel center totaling less than 50,000 square feet. Furthermore, the proposed development project would introduce a new opportunity for such services in the community and thereby shorten the distance that patrons would otherwise travel to other similar uses. Therefore, the proposed development project meets the screening criteria from the City of Calimesa and the Technical Advisory for presumption of a less than significant VMT impact for local-serving gas station and retail uses.

c) Would the project substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?

No Impact. The proposed development project would be accessible from 7th Street. The development project would include on-site circulation improvements (driveways and internal drive aisles) and frontage improvements along the project boundary. These on-site and adjacent improvements would be designed in accordance with all applicable design standards set forth by the City. The design will undergo City and Fire

Department review before approval to ensure that the local development standards for roadways are met without resulting in traffic safety impacts including hazardous design features. The development project would not include sharp curves or dangerous intersections.

The Site Distance Analysis on 7th Street included in the TIA concluded that vehicles traveling along 7th Street would have adequate vertical sight distance to avoid collisions with vehicles accessing the development project site. Based on the above analysis, the proposed development project would not substantially increase hazards due to a geometric design feature or incompatible uses and no impact would occur.

d) Would the project result in inadequate emergency access?

Less Than Significant Impact. The project site would be accessible to emergency responders during construction and operation of the proposed development project. As discussed previously, the project site would be accessible via driveways along 7th Street. Each of the proposed driveways would be designed and constructed to City standards and comply with City width, clearance, and turning-radius requirements. Development of three driveway access points and compliance with all applicable local requirements related to emergency vehicle access and circulation would ensure the proposed development project would not result in inadequate emergency access. Impacts would be less than significant.

3.18 Tribal Cultural Resources

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XVIII. TRIBAL CULTURAL RESOURCES				
Would the project cause a substantial adverse change in the significance of a Tribal cultural resource, defined in Public Resources Code Section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American Tribe, and that is:				
a) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code Section 5020.1(k), or	☐	☒	☐	☐
b) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1? In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American Tribe.	☐	☒	☐	☐

TPM 38215 would not result in any physical environmental changes on the northern parcels; therefore, it would not result in impacts to Tribal cultural resources (TCRs) on the northern parcels. Any future development proposed on

the northern parcels would be subject to a separate TCR analysis and associated CEQA process as determined by the City. The following analysis focuses only on the Sandalwood Travel Center development on Parcel 3, based, in part, on the Cultural Resources Survey Report (Appendix C). In addition, and also pursuant to AB 52, the analysis also relies on correspondence between the City and all NAHC-listed traditionally geographically affiliated Tribal representatives that requested project notification.

Native American Heritage Commission

HELIX contacted the NAHC on December 8, 2020, and requested a review of the Sacred Lands File. The NAHC responded on December 22, 2020, that the results of the search were negative through the absence of site-specific information. However, the NAHC also noted that the absence of site-specific information does not indicate that there is an absence of cultural resources within the project area. The NAHC provided a list of 19 additional Native American individuals and/or Tribal organizations who may have direct knowledge of cultural resources in or near the proposed project site. HELIX submitted letters to the Native American representatives and interested parties identified by the NAHC on February 5, 2021, to request additional information. Three Tribes—the Yuhaaviatam of San Manuel Nation (formerly known as the San Manuel Band of Mission Indians), Fort Yuma Quechan Indian Tribe, and Agua Caliente Band of Cahuilla Indians—provided responses. The Yuhaaviatam's initial response, dated February 21, 2021, stated that although the project is located within Serrano ancestral territory, the area is not of great concern to the Yuhaaviatam. Later this tribe provided input on the proposed mitigation measures. The Fort Yuma Quechan Indian Tribe's response, dated February 8, 2021, did not have comments on the proposed and deferred to more local Tribes. The Agua Caliente Band of Cahuilla Indians' response, dated March 11, 2021, stated that the project site is within the Tribe's Traditional Use Area and therefore required a cultural resources inventory of the project area by a qualified archaeologist prior to any development activities in this area, a copy of the records search with associated survey reports and site records from the information center, and copies of any cultural resource documentation (report and site records) generated in connection with the project.

Assembly Bill 52

AB 52 of 2014 amended PRC Section 5097.94 and added PRC Sections 21073, 21074, 21080.3.1, 21080.3.2, 21082.3, 21083.09, 21084.2, and 21084.3. AB 52 established that TCRs must be considered under CEQA and provided for additional Native American consultation requirements for the lead agency. PRC Section 21074 describes a TCR as a site, feature, place, cultural landscape, sacred place, or object that is considered of cultural value to a California Native American Tribe. A TCR is either:

- On the California Register of Historical Resources or a local historic register;
- Eligible for the California Register of Historical Resources or a local historic register; or
- A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of PRC Section 5024.1.

AB 52 formalizes the lead agency–Tribal consultation process, requiring the lead agency to initiate consultation with California Native American groups that are traditionally and culturally affiliated with the project area, including Tribes that may not be federally recognized. Lead agencies are required to begin consultation prior to the release of a negative declaration, mitigated negative declaration, or environmental impact report by contacting those Tribal groups who have previously provided formal written request for notification of projects under the agency's jurisdiction.

Section 1 (a)(9) of AB 52 establishes that "a substantial adverse change to a TCR has a significant effect on the environment." Effects on TCRs should be considered under CEQA. Section 6 of AB 52 adds Section 21080.3.2 to

the PRC, which states that parties may propose mitigation measures "capable of avoiding or substantially lessening potential significant impacts to a TCR or alternatives that would avoid significant impacts to a TCR." Furthermore, if a California Native American Tribe requests consultation regarding project alternatives, mitigation measures, or significant effects to TCRs, the consultation shall include those topics (PRC Section 21080.3.2[a]). Finally, the environmental document, for which the Tribal consultation is focused, and the mitigation monitoring and reporting program (where applicable), developed in consideration of information provided by Tribes during the formal consultation process, shall include any mitigation measures that are adopted (PRC Section 21082.3[a]).

Assembly Bill 52 Consultation

All NAHC-listed California Native American Tribal representatives that have requested project notification pursuant to AB 52 were sent letters by the City in July 2021, via U.S. Postal Service certified mailing and email. The notification letters contained a project description, outline of AB 52 timing, an invitation to consult, a project site plan, and contact information for the appropriate lead agency representative. At the time of preparation of this IS/MND, only the Yuhaaviatam of San Manuel Nation (formerly known as the San Manuel Band of Mission Indians) responded. **MM CUL-1, MM CUL-2, MM TCR-1**, and **MM TCR-2** have been prepared in part based on Yuhaaviatam input. No other Tribes responded, and the AB 52 consultation process has concluded.

Would the project cause a substantial adverse change in the significance of a Tribal cultural resource, defined in Public Resources Code Section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American Tribe, and that is:

a) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code Section 5020.1(k)?

Less Than Significant Impact with Mitigation Incorporated. As described in Section 3.5(b), the Cultural Resources Survey Report (Appendix C) identified six known cultural resources within the 0.5-mile radius of the project site, all of which date to the historic period. None of the identified resources are located within the development project site. However, two resources, P-33-01529 and P-33-015300, were previously identified adjacent to the development project site. As described in Section 3.5(b), P-33-015299 is a historic isolate containing two glass bottle fragments and a scattering of porcelain plate fragments located within the northern half of APN 411-210-024. P-33-015300 was identified directly adjacent to the project site and consists of an electric utility line held up by nine wooden poles that were erected in 1940. The remaining four resources located within 0.5 miles of the development project site consist of a historic site with a water retention feature (P-33-013993); a historic site containing a structural foundation (P-33-013995); a historic site containing a single-family residence, detached garage, and a wood barn (P-33-016792); and a historic site containing a two-story vernacular farmhouse, a secondary two-story vernacular barn/residence, a wooden chicken coop, and a corrugated metal barn (P-33-016793). However, these resources are historic-era resources and were not located within the project site.

There is also potential for inadvertent discovery of TCRs during ground-disturbing construction activities. In compliance with AB 52, the City also contacted all NAHC-listed traditionally geographically affiliated Tribal representatives that have requested project notification. Subsequent to their response to HELIX, the Yuhaaviatam sent an email to the City on August 2, 2021, stating that the project area is of interest to their Tribe, and provided language with a request for this language to be incorporated into the cultural resources and/or the TCRs mitigation measures. The City's AB 52 process is concluded.

MM CUL-1 and **MM CUL-2**, as discussed in Section 3.5, would be implemented during construction of the development project in the event of an inadvertent discovery of archaeological resources to allow for assessment and evaluation of the resources. Please refer to Section 3.5 for the full text of **MM CUL-1** and **MM CUL-2**. Furthermore, **MM CUL-2** contains the protocol to be implemented should construction activities uncover human remains. In conclusion, with the implementation of **MM CUL-1**, **MM CUL-2**, **MM TCR-1**, and **MM TCR-2**, impacts to historical resources would be less than significant.

Mitigation Measures

MM TCR-1 The San Manuel Band of Mission Indians Cultural Resources Department (SMBMI) shall be contacted, as detailed in **MM CUL-1**, upon discovery of any pre-contact and/or historic-era cultural resources during project implementation, and shall be provided information regarding the nature of the find to inform and allow Tribal input with regard to significance and treatment. Should the find be deemed significant, as defined by the California Environmental Quality Act (as amended, 2015), a cultural resources Monitoring and Treatment Plan shall be created by a qualified archaeologist, in coordination with SMBMI, and all subsequent finds shall be subject to this Monitoring and Treatment Plan. This Monitoring and Treatment Plan shall allow for a monitor to be present that represents SMBMI for the remainder of the project, should SMBMI elect to place a monitor on site.

MM TCR-2 Any and all archaeological/cultural documents created as a part of the project (isolate records, site records, survey reports, testing reports, etc.) shall be supplied to the applicant and the lead agency for dissemination to SMBMI. The lead agency and/or applicant shall, in good faith, consult with SMBMI throughout the life of the project.

b) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1? In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American Tribe.

Less Than Significant Impact with Mitigation Incorporated. The project is subject to compliance with AB 52 (PRC 21074), which requires consideration of impacts to TCRs as part of the CEQA process and requires lead agencies to provide notification of proposed projects to California Native American Tribal representatives that have requested such notifications.

The Yuhaaviatam consulted with the City under AB 52 and requested that mitigation measures be included for the project permit and planning. This language has been incorporated into **MM CUL-1** and **MM CUL-2,** as discussed in Section 3.5, and would be implemented during construction of the development project in the event of an inadvertent discovery of archaeological and/or TCRs to allow for assessment and evaluation of the resources. Furthermore, **MM CUL-2** contains the protocol to be implemented should construction activities uncover human remains. In conclusion, with the implementation of **MM CUL-1**, **MM CUL-2**, **MM TCR-1**, and **MM TCR-2**, impacts related to an unknown TCR would be reduced to less than significant with mitigation incorporated.

3.19 Utilities and Service Systems

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XIX. UTILITIES AND SERVICE SYSTEMS – Would the project:				
a) Require or result in the relocation or construction of new or expanded water, wastewater treatment, or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?	☐	☐	☒	☐
b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years?	☐	☐	☒	☐
c) Result in a determination by the wastewater treatment provider, which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	☐	☐	☒	☐
d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?	☐	☐	☒	☐
e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?	☐	☐	☒	☐

TPM 38215 would not result in any physical environmental changes on the northern parcels; therefore, it would not result in impacts relative to utilities and service systems on the northern parcels. Any future development proposed on the northern parcels would be subject to a separate analysis and associated CEQA process as determined by the City. The following analysis focuses only on the Sandalwood Travel Center development on Parcel 3.

a) ***Would the project require or result in the relocation or construction of new or expanded water, wastewater treatment, or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?***

Less Than Significant Impact. The proposed development project would include the construction of an on-site network consisting of water, sewer, drainage, natural gas, telecommunications, and electric facilities that would connect to existing facilities adjacent to or within the development project site. The development project would also construct an on-site network of water, sewer, drainage, natural gas, telecommunications, and electric facilities that would connect to existing facilities within 7th Street. The installation of utility connections as proposed by the development project would result in physical impacts on site and adjacent to the site for connections; however, these impacts are considered to be part of the development project's

construction phase and are evaluated throughout this IS/MND accordingly. As identified throughout this IS/MND, no significant impacts have been identified for the development project's construction phase, and no mitigation is required. The construction of on-site utilities necessary to serve the development project would not result in any significant physical effects on the environment that are not already identified and disclosed as part of this IS/MND; therefore, impacts would be less than significant.

b) Would the project have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years?

Less Than Significant Impact. The Yucaipa Valley Water District would provide domestic water services to the development project site. The City is primarily served by groundwater from the San Timoteo Subbasin of the Beaumont Groundwater Basin (City of Calimesa 2014d). The sub basin is bounded to the north and northeast by the Banning Fault and impermeable rocks of the San Bernardino Mountains, Crafton Hills, and Yucaipa Hills; on the south by the San Jacinto Fault; on the west by the San Jacinto Mountains; and on the east by a topographic drainage divide with the Colorado River hydrologic region. The surface is drained by Little San Gorgonio Creek and San Timoteo Canyon to the Santa Ana River (SBVMWD 2016). Groundwater for the San Timoteo Subbasin is replenished by subsurface inflow and percolation of precipitation, runoff, wastewater discharge, and imported water. Runoff and imported water are delivered to streambeds and spreading grounds for percolation. The San Timoteo Subbasin is not adjudicated, and reliable estimates of total groundwater extractions are not available. However, water table elevations within the San Timoteo Subbasin have not declined over the years (SBVMWD 2016).

Due to the size of the development project, the availability of groundwater as part of the City's water supply would provide adequate water supply to serve the proposed project, and impacts would be less than significant.

c) Would the project result in a determination by the wastewater treatment provider, which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?

Less Than Significant Impact. The Yucaipa Valley Water District provides wastewater services for the City. The Yucaipa Valley Water District operates and maintains 205 miles of sewer pipelines and five sewer lift stations. The Wochholz Regional Water Recycling Facility was recently expanded to a capacity of 8.0 million gallons per day to accommodate future anticipated population growth and development. The ultimate facility will be capable of treating up to 11 million gallons per day of wastewater (County of San Bernardino 2015).

Wastewater generated by the proposed development project would mainly consist of effluent typical of commercial uses permitted within the C-C zoning designation. None of the proposed uses would generate atypical wastewater, such as industrial or agricultural effluent. All wastewater generated by the development project is expected to be domestic sewage. In addition, the proposed development project would be required to comply with all applicable regulations and standards, including the NPDES permit requirements and RWQCB standards. As such, the expanded Wochholz Regional Water Recycling Facility would have adequate capacity to serve the proposed development project, because the project wastewater generation would be consistent with the permitted land use and the Yucaipa Valley Water District provided a will-serve letter indicating there is adequate treatment capacity to serve the development project. Therefore, impacts would be less than significant.

d) Would the project generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?

Less Than Significant Impact. Implementation of the proposed project would generate an incremental increase in solid waste volumes requiring off-site disposal during short-term construction and long-term operational activities. The proposed development project would be required to comply with mandatory waste reduction requirements as described in Section 3.19(e). Solid waste generated by the project would be disposed of at either the Badlands Landfill or El Sobrante Landfill. El Sobrante Landfill is permitted to receive 16,054 tons per day (CalRecycle 2021). The Badlands Landfill is permitted to receive 4,800 tons per day (CalRecycle 2021). The development project's potential to exceed the capacity of landfills during construction and operation is discussed below.

Solid waste requiring disposal would be generated during the construction of the development project, primarily consisting of discarded materials and packaging. Based on the size of the development project (i.e., 7,764-square-foot building area) and the EPA's construction waste generation factor of 4.34 pounds per square foot for non-residential uses, approximately 16.8 tons of waste is expected to be generated during the project's construction phase ([7,764 square feet × 4.34 pounds per square foot] / 2,000 pounds per ton = 16.8 tons) (EPA 2009). In compliance with the CALGreen Code, a minimum of 65% of all solid waste must be diverted from landfills (by recycling, reusing, and other waste reduction strategies). Therefore, the development project is estimated to generate approximately 5.9 tons of solid waste during its construction phase, which would be disposed of in nearby landfills. Based on the construction schedule established for analysis purposes, the development project's construction phase is estimated to last for approximately 365 days; therefore, the development project is estimated to generate approximately 0.02 tons of solid waste per day requiring landfill disposal during construction.

Non-recyclable construction waste generated by the development project would be disposed of at El Sobrante Landfill and/or the Badlands Landfill. As described above, these landfills receive well below their maximum permitted daily disposal volume; thus, the relatively minimal construction waste generated by the development project is not anticipated to cause either landfill to exceed its maximum permitted daily disposal volume. Furthermore, El Sobrante Landfill and the Badlands Landfill are not expected to reach their total maximum permitted disposal capacities during the development project's construction period. El Sobrante Landfill and the Badlands Landfill have sufficient daily capacity to accept solid waste generated by the development project's construction phase.

In summary, construction and operation of the proposed project would not result in the generation of solid waste in excess of state or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals. Therefore, impacts would be less than significant.

e) Would the project comply with federal, state, and local management and reduction statutes and regulations related to solid waste?

Less Than Significant Impact. Federal, state, and local statutes and regulations regarding solid waste generation, transport, and disposal are intended to decrease solid waste generation through mandatory reductions in solid waste quantities (e.g., through recycling and composting of green waste) and the safe and efficient transport of solid waste. The development project would be required to coordinate with CR&R Waste Services to develop a collection program for recyclables, such as paper, plastics, glass, and aluminum, in accordance with local and state programs, including AB 341, Mandatory Commercial

Recycling, and the California Solid Waste Reuse and Recycling Act of 1991. In addition, the development project would be required to comply with applicable practices enacted by the City under the California Integrated Waste Management Act of 1989 (AB 939) and any other applicable local, state, and federal solid waste management regulations. AB 939 required that local jurisdictions divert at least 50% of all solid waste generated by January 1, 2000. The diversion goal has been increased to 75% by 2020 by SB 341. During construction and operation of the proposed development project, all applicable federal, state, and local agency regulations related to solid waste reduction must be complied with; therefore, impacts would be less than significant.

3.20 Wildfire

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XX. WILDFIRE – If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:				
a) Substantially impair an adopted emergency response plan or emergency evacuation plan?	☐	☐	☐	☒
b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?	☐	☐	☐	☒
c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines, or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?	☐	☐	☐	☒
d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?	☐	☐	☐	☒

TPM 38215 would not result in any physical environmental changes on the northern parcels; therefore, it would not result in impacts relative to wildfire on the northern parcels. Any future development proposed on the northern parcels would be subject to a separate wildfire analysis and associated CEQA process as determined by the City. The following analysis focuses only on the Sandalwood Travel Center development on Parcel 3.

a) Would the project substantially impair an adopted emergency response plan or emergency evacuation plan?

No Impact. The project site is not located within 1 mile of any State Responsibility Areas (SRAs) or land classified as a Very High Fire Hazards Severity Zone in an LRA (CAL FIRE 2009). In addition, as discussed in Section 3.9, Hazards and Hazardous Materials, the proposed development project does not include any characteristics (e.g., temporary or permanent road closures or the long-term blocking of road access) that

would physically impair or otherwise conflict with an adopted emergency response plan or emergency evacuation plan. Therefore, no impact would occur.

b) Due to slope, prevailing winds, and other factors, would the project exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?

No Impact. The project site is not located within 1 mile of any SRAs or land classified as a Very High Fire Hazards Severity Zone in a LRA (CAL FIRE 2009). Therefore, no impact would occur.

c) Would the project require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines, or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?

No Impact. The project site is not located within 1 mile of any SRAs or land classified as a Very High Fire Hazards Severity Zone in a LRA (CAL FIRE 2009). Therefore, no impact would occur.

d) Would the project expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?

No Impact. The project site is not located within 1 mile of any SRAs or land classified as a Very High Fire Hazards Severity Zone in a LRA (CAL FIRE 2009). In addition, as previously discussed in Section 3.7, Geology and Soils, landslides or other forms of natural slope instability do not represent a significant hazard to the project because the project site is located in a relatively flat area. Therefore, no impact would occur.

3.21 Mandatory Findings of Significance

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XXI. MANDATORY FINDINGS OF SIGNIFICANCE				
a) Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?	☐	☒	☐	☐

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
b) Does the project have impacts that are individually limited, but cumulatively considerable ("cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?	☐	☒	☐	☐
c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	☐	☒	☐	☐

As discussed throughout this document, TPM 38215 would not result in any physical environmental changes on the northern parcels; therefore, it would not result in impacts relative to the northern parcels. Any future development proposed on the northern parcels would be subject to a separate analysis and associated CEQA process as determined by the City. The following mandatory findings are focused only on the Sandalwood Travel Center development on Parcel 3.

a) ***Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?***

Less Than Significant Impact with Mitigation Incorporated. To reduce impacts to nesting birds during construction, **MM BIO-2** would be implemented, which requires a nesting bird survey prior to any ground disturbance as well as the establishment of exclusion buffers depending on the bird species present. In addition, as described in Sections 3.4.2(a), 3.4.2(d), and 3.4.2(f), the project site is located within the MSHCP Plan Area Subunit 2 (Badlands/San Bernardino National Forest) Cells 323 and 326. Although potentially suitable BUOW habitat was identified, no suitable burrows or burrow surrogates were identified on Parcel 3. BUOW is not expected to occur on the development project site. However, potential impacts to BUOW would be minimized through implementation of **MM BIO-1**. **MM BIO-3** includes mitigation for impacts related to the 2009 grading activities and **MM BIO-4** includes the MSHCP landscaping restrictions.

Impacts to archaeological resources, human remains, and TCRs that may be buried in site soils were determined to be potentially significant without mitigation. Such impacts would be less than significant after implementation of mitigation measures **MM CUL-1** and **MM CUL-2**.

Additionally, impacts to paleontological resources that may be buried in site soils were determined to be potentially significant without mitigation. Such impacts would be less than significant after implementation of mitigation measure **MM GEO-1**.

b) Does the project have impacts that are individually limited, but cumulatively considerable ("cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?

Less Than Significant Impact with Mitigation Incorporated. When evaluating cumulative impacts, it is important to remain consistent with Section 15064(h) of the CEQA Guidelines, which states that an EIR must be prepared if the cumulative impact may be significant and the project's incremental effect, though individually limited, is cumulatively considerable. "Cumulatively considerable" means that the incremental effects of an individual project are significant when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects. Cumulative impacts refer to individual effects that, when considered together, are considerable or that compound or increase other environmental impacts. The cumulative impact is the change in the environment that results from the incremental impact of the project when added to other closely related past, present, and reasonably foreseeable probable future projects. Cumulative impacts can result from individually minor but collectively significant projects taking place over a period of time. For biological resources, there is the potential for cumulative impacts to result if similar resources are affected by both the project and one or more of the related projects. The past, present, and reasonably future projects (i.e., cumulative projects) used for this analysis included a project list (Table 3 in the Traffic Impact Analysis) that included the Mesa Verde Specific Plan (directly adjacent to the west), the 76/Circle K Fuel Station and C-Store and RV Fueling Facility/Gas Station (both to the north of the site, west of I-10, but not directly adjacent), and Summerwind Specific Plan (to the south of the site, west of I-10, but not directly adjacent). Each of these projects is also planned for undeveloped natural areas. All other cumulative projects on Table 3 are farther away, on the other side of I-10, and not likely to have a cumulatively considerable impact due to their distance away from the project site, as well as being infill development sites in a relatively developed area of the City.

Alternatively, a lead agency may determine that a project's incremental contribution to a cumulative effect is not cumulatively considerable through mitigation measures set forth in an MND or if the project will comply with the requirements in a previously approved plan or mitigation program that provides specific requirements that will avoid or substantially lessen the cumulative problem within the geographic area in which the project is located. Specific environmental factors addressed throughout this IS/MND are discussed in greater detail below with respect to cumulative impacts.

As shown in the environmental analysis in this IS/MND, the proposed project was determined to have no impact related to agriculture and forestry resources, mineral resources, recreation, or wildfire. Because the project would have no impact in relation to these factors, it would not have the potential to contribute to a significant effect created by the combined impacts of closely related projects.

Impacts related to aesthetics, air quality, energy, GHG emissions, hazards and hazardous materials, hydrology and water quality, land use and planning, population and housing, public services, transportation, and utilities and service systems were determined to be less than significant without the need for mitigation measures. However, even though the impacts in these areas are less than significant on a project level, they could still have the potential to contribute to a cumulative impact. The following discussion addresses the potential for each of these less-than-significant impact areas to contribute to a cumulative impact.

Mitigation would be required to reduce impacts to less than significant levels for biological resources (special-status wildlife species and conflict with an adopted habitat conservation plan), cultural resources, geology and soils (paleontological resources), noise (construction only), and TCRs. However,

even though the impacts can be reduced to less than significant on a project level with the incorporation of mitigation, they could still have the potential to contribute to a cumulative impact. The following discussion addresses the potential for each of these less than significant mitigation impact areas to contribute to a cumulative impact.

Aesthetics

Although the proposed project would be constructed on land that is currently undeveloped and would therefore change the visual character of the project site, its design would be similar in character and design to existing adjacent development. The project would introduce land uses that are consistent with the vision of the City's General Plan. Assuming that future development in the vicinity of the project site is similarly compliant with the vision of the General Plan, cumulative development in the area would be cohesive and would improve the cumulative aesthetic character of the area. Additionally, although the project would add nighttime lighting to the project vicinity, the lights would be shielded and directed downward to focus lighting within desired areas and minimize light spillover onto adjacent properties. Lighting impacts from the project, as well as lighting impacts of any future development within the vicinity of the project site, would be required to comply with the City's Municipal Code, Chapter 18.120.090 and Title 24 of the California Code of Regulations, Part 6 (and any successor regulations), and the Uniform Building and Electrical Codes, which contain requirements to minimize light spillover for each individual development. This in turn minimizes cumulative impacts related to lighting. As such, because the proposed project would minimize light spillover through design elements and compliance with codes and regulations related to lighting, it would not result in a cumulatively considerable contribution to lighting impacts.

Air Quality

Air pollutant and GHG emissions, as assessed under CEQA, are inherently recognized as cumulative impacts. Project-level thresholds of significance for these emissions are used in the determination of whether a project's individual emissions would result in a cumulatively considerable contribution to a significant impact. Based on the analysis contained in this IS/MND, both air quality and GHG emissions would remain substantially below the defined thresholds of significance. Therefore, the proposed project would not result in a cumulatively considerable contribution to a wider adverse air quality or GHG impact.

Biological Resources

As discussed in Section 3.4, the proposed project has the potential to impact special-status wildlife species and could result in conflict with a habitat conservation plan if mitigation is not implemented. Cumulative impacts to these resources are analyzed in this section. The proposed project is not expected to result in impacts to sensitive vegetation communities or rare plants, riparian habitat, federally protected wetlands, or wildlife corridors, habitat linkages, or native wildlife nursery sites, nor is it expected to conflict with local policies protecting biological resources. Because the project would not incrementally contribute to the cumulative impacts of these biological resources, they are not addressed in the cumulative impact analysis.

Most of the related cumulative projects are projects at a distance from the project site, divided by a major freeway, or isolated from naturalized areas by surrounding development. As such, these related projects would not be expected to support habitat that would be suitable for most special-status plant and wildlife species or to contain other sensitive biological resources that could be incrementally impacted by the proposed project. Therefore, with the exception of special-status wildlife and conflict with a habitat

conservation plan, which could occur in urban settings in the City, nearly all of the related projects would not result in incremental impacts to sensitive biological resources. Four related cumulative projects (Mesa Verde Specific Plan, 76/Circle K Fuel Station and C-Store, RV Fueling Facility/Gas Station, and Summerwind Specific Plan) are located in areas that may support similar habitats and present similar potential biological constraints to those present on the proposed project site. Therefore, the proposed project has the potential to incrementally contribute to cumulative impacts on protected biological resources, including special-status wildlife species and their habitat, and conflict with a habitat conservation plan.

As discussed in the analysis in Section 3.4, implementation of **MM BIO-1** through **MM BIO-4** would reduce all potential project impacts to less than significant. With implementation of the project-specific mitigation measures, the project's incremental effect on special-status species and conflict with a habitat conservation plan would be less than significant when viewed in connection with the effects of the cumulative projects. Further, all cumulative projects would be subject to existing and/or future permit restrictions that satisfy applicable regulatory requirements. Lastly, the proposed project and the cumulative projects are located within the plan boundary of the Western Riverside County MSHCP, and the City is a signatory to the MSHCP Implementing Agreement. Based on this analysis, the project's incremental effect on biological resources would not be cumulatively considerable, and cumulative impacts on biological resources would be less than significant with mitigation. Regarding conflicts with a regional habitat conservation plan, in this case, the MSHCP, the project would comply with **MM BIO-3**, requiring completion of the JPR process prior to project approval, and would not result in conflicts with the MSHCP. As a result, this issue would not be considered cumulatively considerable.

Potential impacts to biological resources (nesting birds and burrowing owl) were determined to be less than significant through compliance with existing policies or regulations or with the implementation of mitigation measures proposed based on the results of the environmental analysis contained in the IS/MND. However, such impacts, should they occur, are site-specific in nature and are limited to the project construction footprint; therefore, they would not result in a cumulatively considerable contribution to similar potentially adverse impacts resulting from other closely related projects in the vicinity.

Cultural Resources

Potential impacts to cultural resources (e.g., the inadvertent discovery of unknown buried archaeological, paleontological, or TCRs, as well as human remains), were determined in this IS/MND to be less than significant through compliance with existing policies or regulations or with the implementation of mitigation measures introduced based on the results of the environmental analysis contained in the IS/MND. However, such impacts, should they occur, are site-specific in nature and are limited to the project construction footprint; therefore, they would not result in a cumulatively considerable contribution to similar potentially adverse impacts resulting from other closely related projects in the vicinity.

Energy

The use of energy is considered an impact with potentially broader effects based on the consumption of limited resources often required to produce energy. However, it was determined in this IS/MND that although the project would increase energy use, the use would be a small fraction of the statewide use, and due to efficiency increases is expected to diminish over time (particularly with respect to petroleum). Given these considerations, it was determined that energy consumption associated with the project would

not be considered inefficient or wasteful. Therefore, the proposed project would not result in a cumulatively considerable contribution to a wider adverse impact related to energy consumption and conservation.

Geology

Geology and hydrology impacts related to increased potential for erosion, runoff, siltation, flooding, and pollution discharges would generally be site-specific in nature, but such impacts could also extend off site and result in a larger impact when combined with similar impacts from closely related projects in the area. However, through compliance with existing policies or regulations (NPDES permit and SWPPP), off-site impacts would be largely eliminated and therefore would not result in a cumulatively considerable contribution to a more widespread impact potentially created by the combined effects of closely related projects.

Although determined to be less than significant, geology impacts related to seismic hazards and hazards created by various soil conditions pertain to the potential impacts from the environment on the proposed project rather than impacts to the environment caused by the project. In this regard, the project would not result in a cumulatively considerable contribution to similar impacts experienced by closely related projects in the area.

Greenhouse Gas Emissions

Global climate change is a cumulative impact; a project contributes to this impact through its incremental contribution combined with the cumulative increase of all other sources of GHGs. Thus, GHG impacts are recognized exclusively as cumulative impacts (CAPCOA 2008). As shown in Table 16, Estimated Annual Operational Greenhouse Gas Emissions (2027), in Section 3.8, the proposed development project would not exceed the industrial threshold of 10,000 MT CO_2e per year as established by SCAQMD. In addition, the development applicant would be required to include the minimal energy efficiency and water conservation measures to the proposed development project, as required for small projects in the CAP.

The proposed project would not interfere with implementation of any of the above-described GHG reduction goals for 2030 or 2050 because the project would not exceed the SCAQMD's recommended threshold of 10,000 MT CO_2e per year (SCAQMD 2008). Because the proposed development project would not exceed the threshold, this analysis provides support for the conclusion that the project would not impede the state's trajectory toward the above-described statewide GHG reduction goals for 2030 or 2050.

The proposed project's consistency with the state's Scoping Plan would assist in meeting each jurisdiction's contribution to GHG emission reduction targets in California. With respect to future GHG targets under SB 32 and EO S-3-05, CARB has also made clear its legal interpretation that it has the requisite authority to adopt whatever regulations are necessary, beyond the AB 32 horizon year of 2020, to meet the SB 32 40% reduction target by 2030 and the EO S-3-05 80% reduction target by 2050. This legal interpretation by an expert agency provides evidence that future regulations will be adopted to continue the trajectory toward meeting these future GHG targets.

Based on the above considerations, the proposed development project would not conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing GHG emissions. The project would not result in a cumulatively considerable contribution to GHG emissions.

Hazards and Hazardous Materials

Construction at the development project site would involve the temporary use and transport of small quantities of common hazardous and/or flammable materials, including diesel fuel, gasoline, and other oils and lubricants. The use, storage, transport, and disposal of these materials would comply with all existing local, state, and federal regulations. Should a spill occur, its impact would be minimized through adherence to applicable regulations. Additionally, the impact would be highly localized and would therefore not be likely to combine with those used for other development projects in the area to create a cumulatively considerable effect. During the operation phase of the development project, gasoline and diesel fuel would be routinely handled, stored, and dispensed on the project site, including fuels being transported to and stored in five proposed USTs. In addition to required adherence to state and federal regulations related to the transport of hazardous materials and regulations related to the installation, modification, repair or removal of USTs, the developer would be required to prepare and implement a HMBP, which would assist the operator with compliance with state requirements and provide emergency responders with adequate information about the type and quantity of hazardous materials stored at a facility. Additionally, California Code of Regulations Title 23, Chapter 16 and Riverside County Ordinance 617 mandate regular monitoring, maintenance and inspection of USTs, which would ensure the safe and appropriate operation of the proposed UST on site (County of Riverside 2020). Adherence to the various regulations related to hazardous materials would minimize the chance of a spill. However, should a spill occur, its impact would be localized and not anticipated to combine with hazardous materials releases from other development projects in the area to create a cumulatively considerable effect.

Hydrology and Water Quality

Groundwater would be required for operation of the proposed project. However, the project site sources its water from the San Timoteo Subbasin, which is classified as low to very low priority with respect to groundwater basin prioritization and has water table elevations that have not declined over the years. Additionally, the non-adjudicated portion of the San Timoteo Subbasin is managed by the San Timoteo GSA, which in turn coordinates with the Eastern Municipal Water District, which manages a separate GSA in the southern non-adjudicated portion of the subbasin. As such, the subbasin is managed for the collective users of the subbasin. As such, the proposed project would not result in a cumulatively considerable contribution to groundwater depletion.

Land Use and Planning

The analysis in this IS/MND determined that the proposed project is consistent with applicable land use plans, policies, and regulations. A main goal of land use plans, policies, and regulations is to manage growth and development patterns holistically for a specified area. As such, the proposed project would not result in a cumulatively considerable incremental contribution to land use inconsistency in relation to other projects in the vicinity.

The project would be developed in accordance with the land use designation applied to the site by the City of Calimesa General Plan. The proposed project would generate approximately 15 new employment opportunities, which is small in relation to the total employment within the City and which would not exceed the growth anticipated by the City and evaluated in the SCAG RTP/SCS. The proposed project would not result in a cumulatively considerable incremental contribution to population growth.

Noise

Impacts related to noise have the potential to affect a limited area beyond the boundaries of the project site. However, the assessment of such impacts in this IS/MND concluded that project noise during operation would be less than significant and that construction noise would be less than significant with mitigation incorporated. These conclusions accounted for the combined effect of the project and the surrounding existing setting. The Mesa Verde Estates Specific Plan has been approved immediately west of the project site, but the site is currently undeveloped and construction is not going to overlap with construction of the proposed project (opening year of Mesa Verde Estates Specific Plan Phase I is 2030). The Summerwind Ranch at Oak Valley Specific Plan has also been approved to the south of the proposed project site. Development has occurred within the southern portion of the specific plan area, farthest away from the proposed project site. Construction within the specific plan area close to the proposed project site is not underway and is not likely to overlap with construction of the proposed project. As such, the project's construction noise would not combine with noise from surrounding construction projects to contribute to a significant cumulative impact.

Population and Housing

Impacts related to population and housing would not be cumulatively considerable even though the proposed development project would generate new employment opportunities (15 employees). It would not result in growth that was not already anticipated by the City and evaluated in the SCAG RTP/SCS. Furthermore, the development project site is served by existing public roadways and utility infrastructure already installed beneath public right-of-way that abuts the property. Therefore, the project in combination with other growth in the City would not result in a significant cumulative impact.

Public Services

Operation of the proposed project on the currently vacant site would increase the demand for public services, including fire and police protection. However, the analysis in this IS/MND determined that the proposed project would not cause staffing, facilities, or equipment to operate at a deficient level of service such that construction of new or expanded fire or police protection facilities would be required. Additionally, the development applicant would be required to pay Developer Impact Fees, which provides a funding source for construction of fire and police facilities as a result of impacts related to future growth in the City. As such, the proposed project would not result in a cumulatively considerable incremental contribution to impacts on the ability of fire or police facilities to meet performance objectives.

Transportation

The proposed project would be designed to comply with applicable plans, ordinances, and policies that establish measures of effectiveness for the performance of the circulation system as a whole. Additionally, the project includes local-serving retail uses, which would shorten the distance that patrons would otherwise travel to other similar uses. As such, the proposed project would not result in a cumulatively considerable incremental contribution to traffic delays and would have a positive impact on VMT.

Tribal Cultural Resources

Potential impacts to TCRs were determined in this IS/MND to be less than significant with the implementation of **MM CUL-1**, **MM CUL-2**, **MM TCR-1**, and **MM TCR-2**, based on tribal consultation. However, such impacts, should they occur, are site specific in nature and would be limited to the project construction footprint. Therefore, project impacts would not result in a cumulatively considerable contribution to similar potentially adverse impacts resulting from other closely related projects in the vicinity.

Utilities and Service Systems

Impacts to utilities and service systems could contribute to a significant impact from the combined effects of more than one project on the limited capacity of services such as wastewater treatment, water supply, and solid waste disposal. However, the analysis in this IS/MND determined that the proposed project is relatively small and would not have a significant impact on the availability of groundwater for City water supply; that the Wochholz Regional Water Recycling Facility, which serves the project site, would have adequate capacity to serve the proposed development project; and that the proposed project would not result in the generation of solid waste in excess of state or local standards, or in excess of the capacity of local infrastructure. Therefore, the project would result in a less than cumulatively considerable incremental contribution to any combined effect created by other projects.

c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?

Less Than Significant Impact with Mitigation Incorporated. Direct and indirect environmental effects on human beings were analyzed in the following sections: aesthetics, air quality, geology and soils, hazards and hazardous materials, hydrology and water quality, land use and planning, noise, population and housing, and transportation. As found in the discussion for each relevant section, the project would not result potentially significant impacts to human beings, either directly or indirectly. The proposed project would be required to comply with all applicable federal, state, and local policies and regulations. For example, the City would require its contractor to implement measures and methods that would ensure compliance with the average sound level limits established by each jurisdiction's Noise Ordinances, as applicable. As such, the proposed project would not result in environmental effects that would cause substantial adverse effects on human beings.

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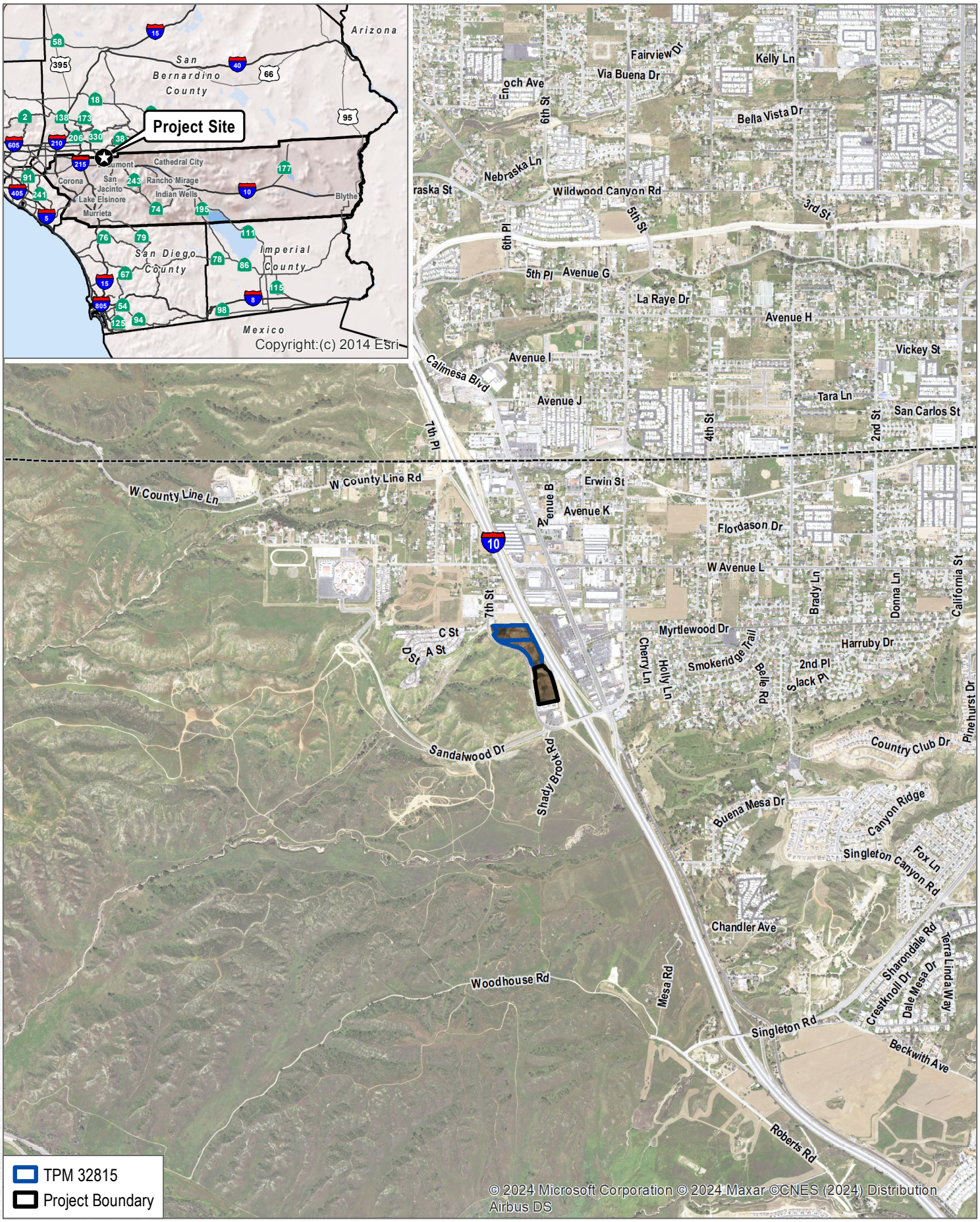
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SOURCE: GMZ Associates 2023; Open Street Map; Bing Maps

DUDEK

0 1,000 2,000 Feet

FIGURE 1

Project Location

Sandalwood Travel Center Project and TPM 38215

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SOURCE: GMZ Associates 2023; Riverside County 2025; Open Street Map; ESRI World Imagery

DUDEK

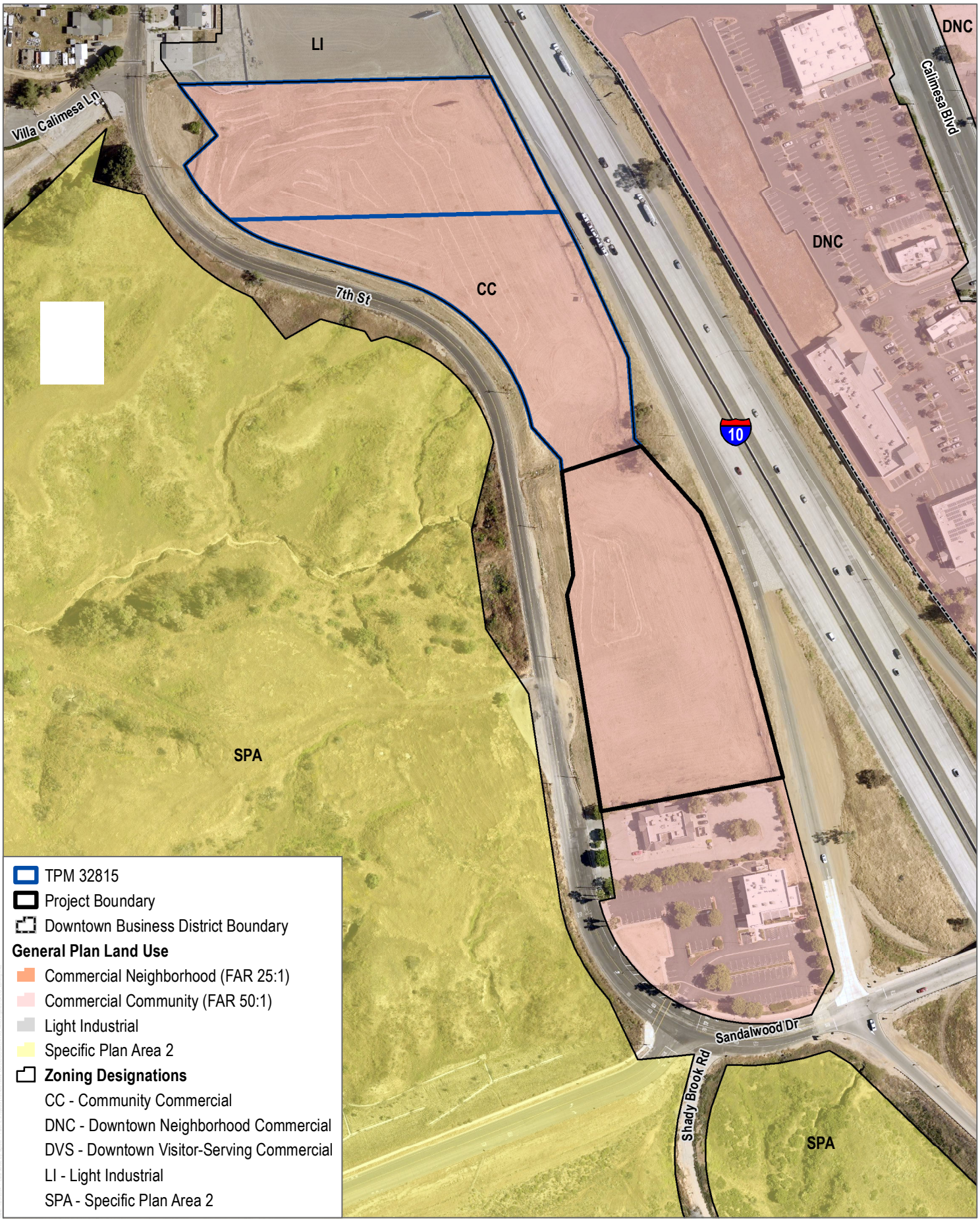
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FIGURE 2

Proposed TPM 32815 Finance Map

Sandalwood Travel Center Project and TPM 38215

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SOURCE: GMZ Associates 2022; Riverside County 2022; City of Calimesa; Open Street Map; Bing Maps

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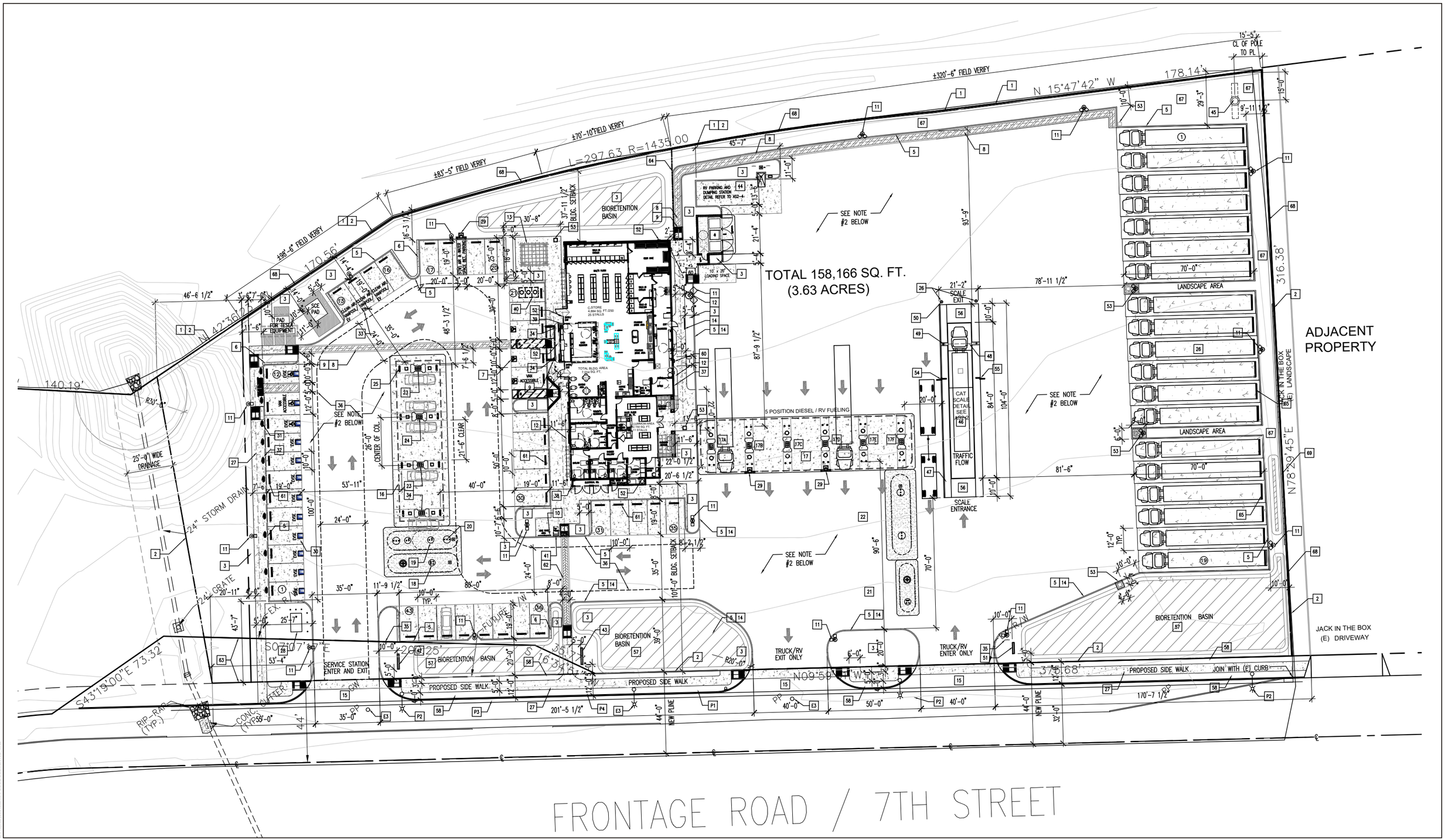
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FIGURE 3

General Plan Land Use and Zoning Designations

Sandalwood Travel Center Project and TPM 38215

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SOURCE: Absolute Design Methods, 2023

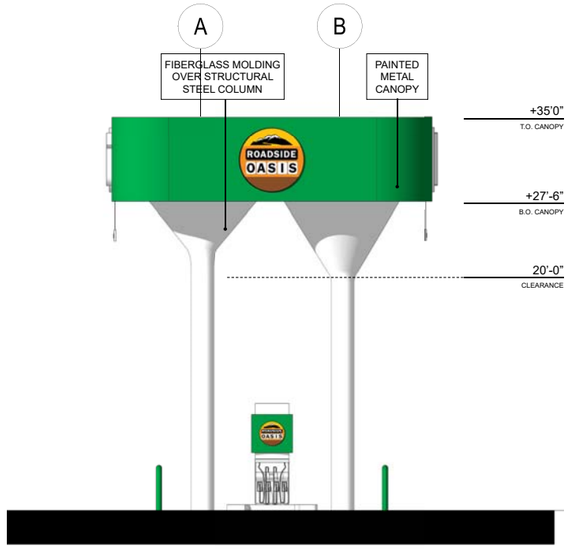
FIGURE 4

Site Plan

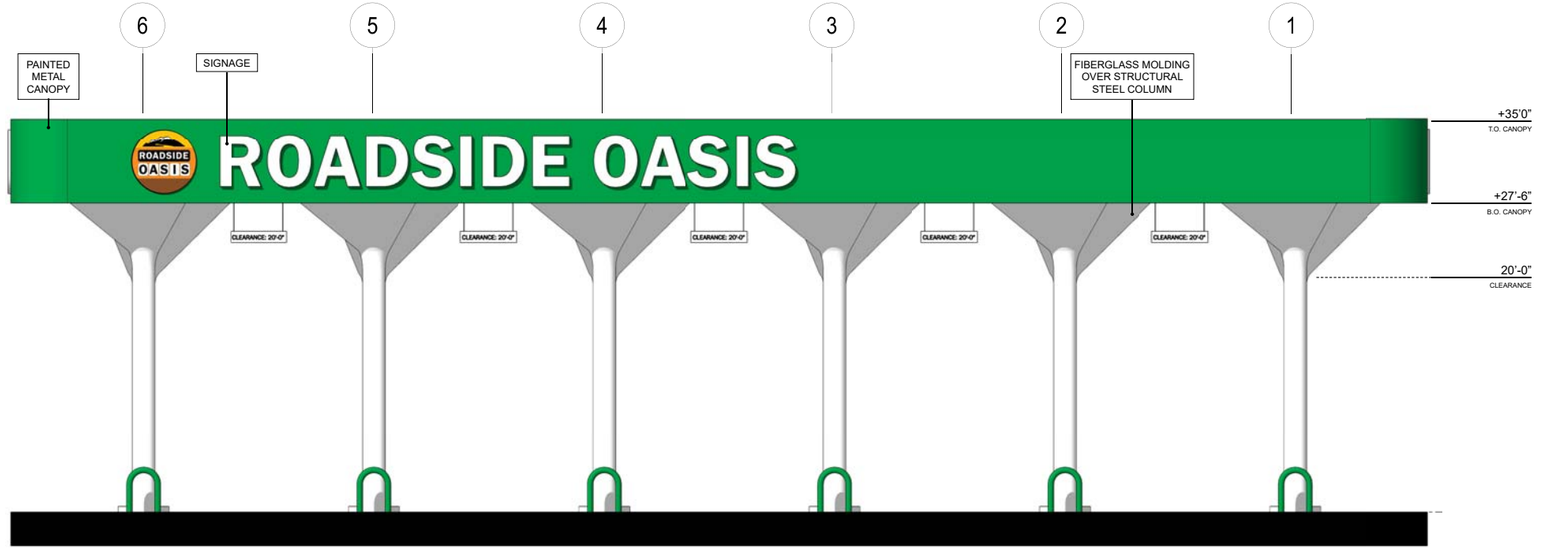
Sandalwood Travel Center Project and TPM 38215

DUDEK

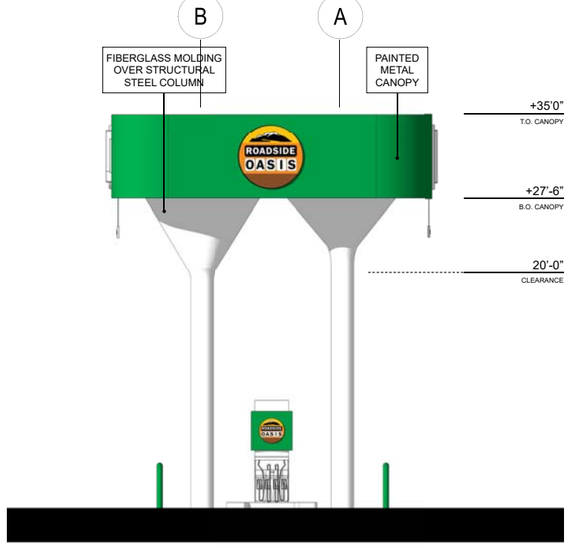
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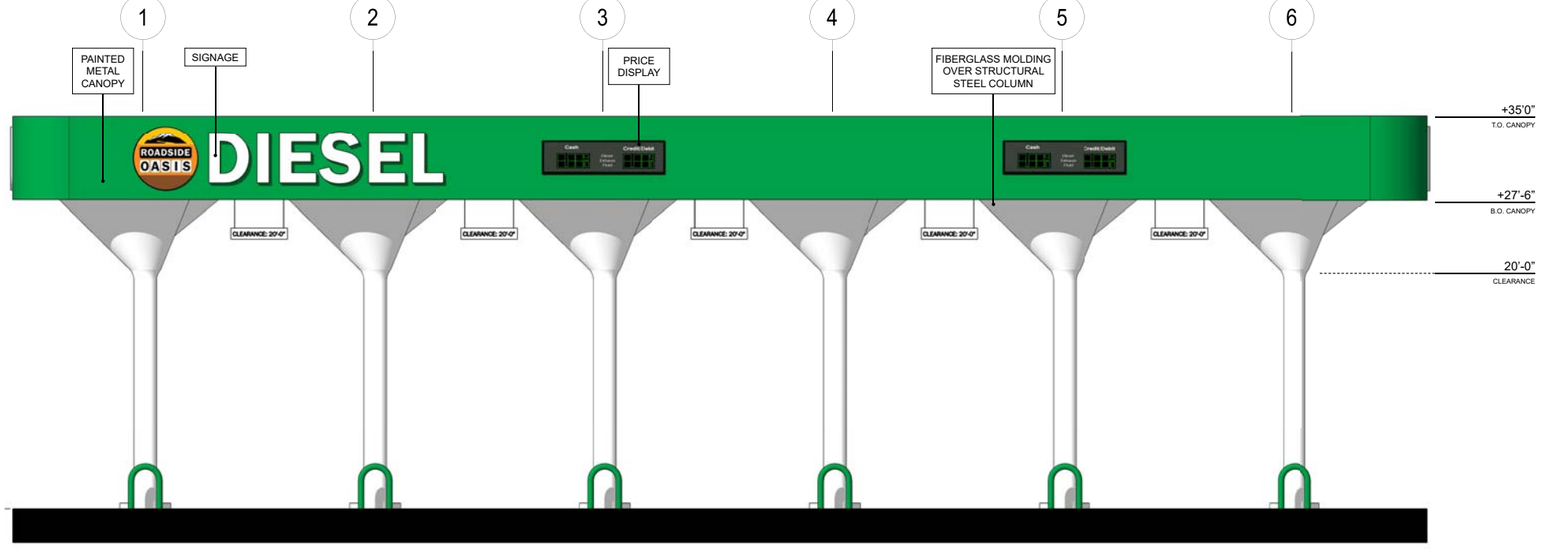
1 NORTH



3 EAST ELEVATION



2 SOUTH



4 WEST ELEVATION

NOTE:
1. SIGNAGE IS CONCEPTUAL AND WILL BE UNDER A SEPARATE PERMIT.

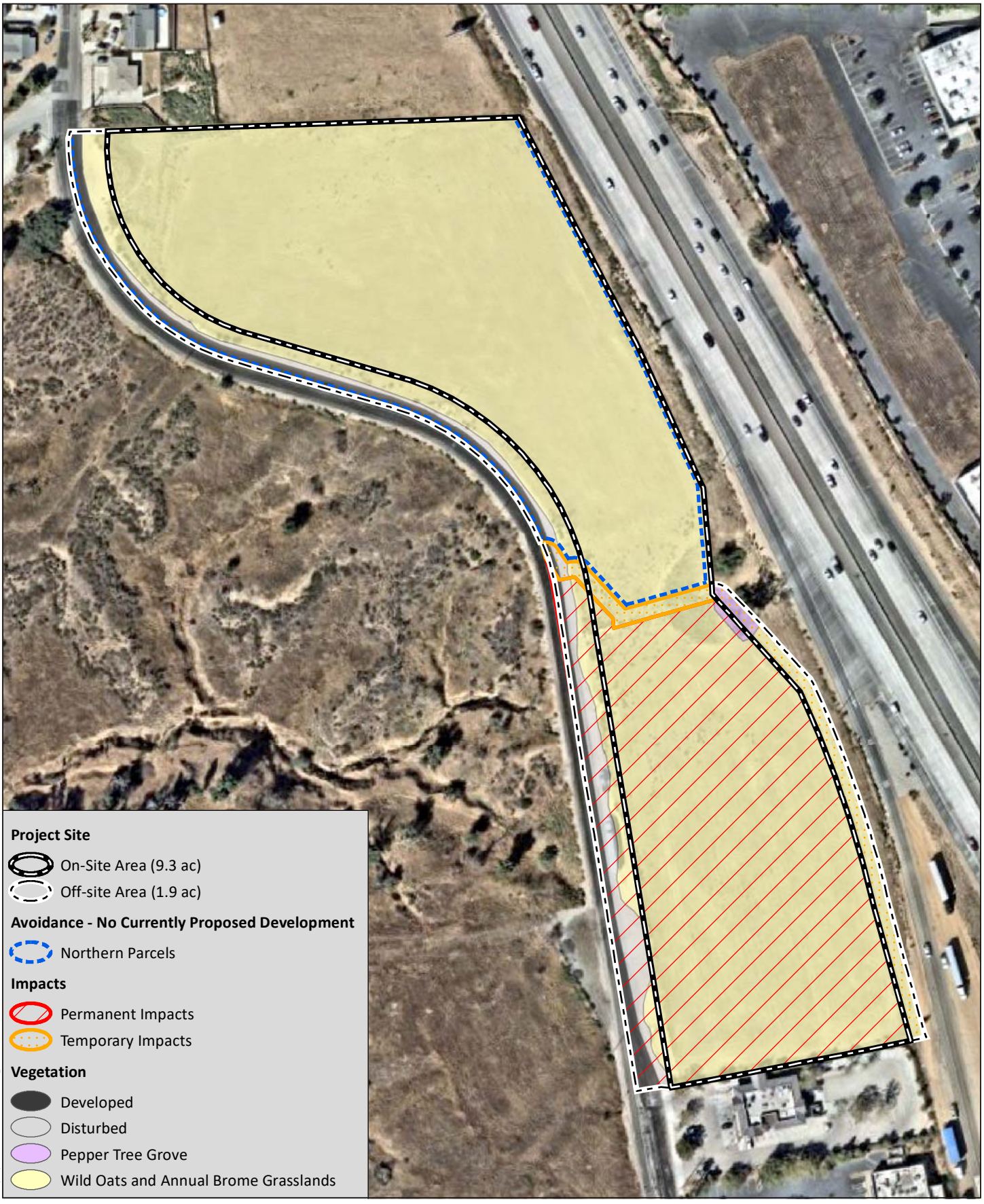
0 4 8 10'-8"
SCALE: 3/16" = 1'-0"

SOURCE: KTGY Architecture + Planning, 2023

FIGURE 5
Canopy Elevations
Sandalwood Travel Center Project and TPM 38215

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SOURCE: Helix, 2026

FIGURE 6

Impacts to Vegetation and Land Cover Types

Sandalwood Travel Center Project and TPM 38215

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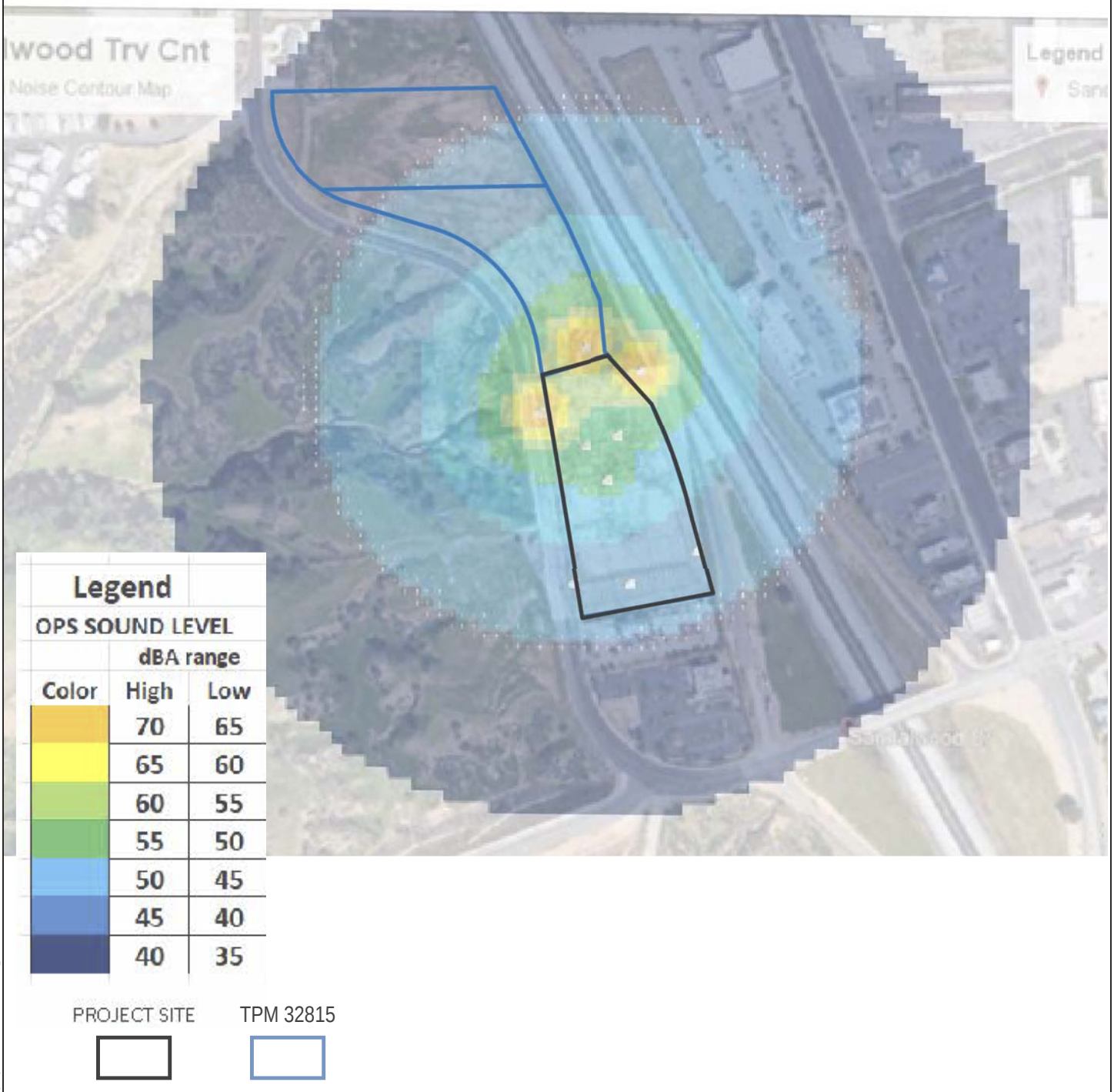


FIGURE 7

Operational Noise

Sandalwood Travel Center Project and TPM 38215

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Appendix A-1

CalEEMod Air Quality Modeling Results
Prepared by Dudek, December 2024

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Sandalwood Travel Center Detailed Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Sandalwood Travel Center
Construction Start Date	12/1/2025
Operational Year	2027
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.994378286813955, -117.06085332727126
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5623
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Other Asphalt Surfaces	3.18	Acre	3.18	0.00	0.00	0.00	—	—

Parking Lot	43.0	Space	0.39	0.00	0.00	—	—	—
Convenience Market with Gas Pumps	4.00	Pump	0.01	565	0.00	—	—	—
Gasoline/Service Station	2.00	Pump	0.01	282	0.00	—	—	—
Fast Food Restaurant with Drive Thru	1.77	1000sqft	0.04	1,772	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.64	1.38	11.0	18.1	0.03	0.39	1.13	1.52	0.36	0.27	0.64	—	4,178	4,178	0.16	0.18	5.48	4,241
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.03	3.93	31.9	31.3	0.06	1.37	19.9	21.3	1.26	10.2	11.4	—	8,529	8,529	0.23	0.87	0.32	8,796
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.24	1.08	7.08	10.9	0.02	0.25	0.69	0.94	0.23	0.23	0.40	—	2,586	2,586	0.08	0.11	1.47	2,623
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.23	0.20	1.29	1.99	< 0.005	0.05	0.13	0.17	0.04	0.04	0.07	—	428	428	0.01	0.02	0.24	434

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.64	1.38	11.0	18.1	0.03	0.39	1.13	1.52	0.36	0.27	0.64	—	4,178	4,178	0.16	0.18	5.48	4,241
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	4.03	3.39	31.9	31.3	0.06	1.37	19.9	21.3	1.26	10.2	11.4	—	8,529	8,529	0.23	0.87	0.32	8,796
2026	3.96	3.93	11.1	17.0	0.03	0.39	1.13	1.52	0.36	0.27	0.64	—	4,103	4,103	0.13	0.18	0.14	4,161
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.15	0.13	1.26	1.36	< 0.005	0.05	0.49	0.54	0.05	0.23	0.28	—	378	378	0.01	0.03	0.19	386
2026	1.24	1.08	7.08	10.9	0.02	0.25	0.69	0.94	0.23	0.17	0.40	—	2,586	2,586	0.08	0.11	1.47	2,623
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.03	0.02	0.23	0.25	< 0.005	0.01	0.09	0.10	0.01	0.04	0.05	—	62.6	62.6	< 0.005	< 0.005	0.03	63.9
2026	0.23	0.20	1.29	1.99	< 0.005	0.05	0.13	0.17	0.04	0.03	0.07	—	428	428	0.01	0.02	0.24	434

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	15.2	13.4	40.2	133	0.55	0.64	36.3	37.0	0.61	9.32	9.93	14.6	57,975	57,989	3.19	5.15	282	59,887
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	14.4	12.5	42.4	112	0.53	0.64	36.3	37.0	0.61	9.32	9.93	14.6	55,949	55,963	3.22	5.20	124	57,719

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	14.4	12.5	42.8	115	0.54	0.64	35.8	36.4	0.61	9.17	9.78	14.6	56,234	56,249	3.23	5.22	190	58,074
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.62	2.28	7.81	21.1	0.10	0.12	6.52	6.64	0.11	1.67	1.79	2.41	9,310	9,313	0.53	0.86	31.4	9,615

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	15.1	13.3	40.2	132	0.55	0.64	36.3	37.0	0.60	9.32	9.92	—	57,801	57,801	1.71	5.15	162	59,539
Area	0.11	0.11	< 0.005	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.47	0.47	< 0.005	< 0.005	—	0.47
Energy	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	164	164	0.02	< 0.005	—	165
Water	—	—	—	—	—	—	—	—	—	—	—	2.08	8.92	11.0	0.21	0.01	—	17.9
Waste	—	—	—	—	—	—	—	—	—	—	—	12.5	0.00	12.5	1.25	0.00	—	43.7
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	120	120
Total	15.2	13.4	40.2	133	0.55	0.64	36.3	37.0	0.61	9.32	9.93	14.6	57,975	57,989	3.19	5.15	282	59,887
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	14.3	12.5	42.4	112	0.53	0.64	36.3	37.0	0.60	9.32	9.92	—	55,775	55,775	1.75	5.20	4.20	57,372
Area	0.09	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	164	164	0.02	< 0.005	—	165
Water	—	—	—	—	—	—	—	—	—	—	—	2.08	8.92	11.0	0.21	0.01	—	17.9
Waste	—	—	—	—	—	—	—	—	—	—	—	12.5	0.00	12.5	1.25	0.00	—	43.7
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	120	120
Total	14.4	12.5	42.4	112	0.53	0.64	36.3	37.0	0.61	9.32	9.93	14.6	55,949	55,963	3.22	5.20	124	57,719

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	14.2	12.4	42.7	115	0.54	0.64	35.8	36.4	0.60	9.17	9.78	—	56,061	56,061	1.75	5.21	69.9	57,727
Area	0.10	0.10	< 0.005	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.32	0.32	< 0.005	< 0.005	—	0.32
Energy	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	164	164	0.02	< 0.005	—	165
Water	—	—	—	—	—	—	—	—	—	—	—	2.08	8.92	11.0	0.21	0.01	—	17.9
Waste	—	—	—	—	—	—	—	—	—	—	—	12.5	0.00	12.5	1.25	0.00	—	43.7
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	120	120
Total	14.4	12.5	42.8	115	0.54	0.64	35.8	36.4	0.61	9.17	9.78	14.6	56,234	56,249	3.23	5.22	190	58,074
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.60	2.26	7.80	21.0	0.10	0.12	6.52	6.64	0.11	1.67	1.78	—	9,281	9,281	0.29	0.86	11.6	9,557
Area	0.02	0.02	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.05	0.05	< 0.005	< 0.005	—	0.05
Energy	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	27.2	27.2	< 0.005	< 0.005	—	27.4
Water	—	—	—	—	—	—	—	—	—	—	—	0.34	1.48	1.82	0.04	< 0.005	—	2.96
Waste	—	—	—	—	—	—	—	—	—	—	—	2.07	0.00	2.07	0.21	0.00	—	7.24
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	19.9	19.9
Total	2.62	2.28	7.81	21.1	0.10	0.12	6.52	6.64	0.11	1.67	1.79	2.41	9,310	9,313	0.53	0.86	31.4	9,615

3. Construction Emissions Details

3.1. Site Preparation (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	3.94	3.31	31.6	30.2	0.05	1.37	—	1.37	1.26	—	1.26	—	5,295	5,295	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	0.43	0.41	< 0.005	0.02	—	0.02	0.02	—	0.02	—	72.5	72.5	< 0.005	< 0.005	—	72.8
Dust From Material Movement	—	—	—	—	—	—	0.27	0.27	—	0.14	0.14	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.0	12.0	< 0.005	< 0.005	—	12.1
Dust From Material Movement	—	—	—	—	—	—	0.05	0.05	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.09	1.05	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	233	233	0.01	0.01	0.02	236
Vendor	0.01	< 0.005	0.14	0.04	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	122	122	< 0.005	0.02	0.01	128
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.24	3.24	< 0.005	< 0.005	0.01	3.28
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.68	1.68	< 0.005	< 0.005	< 0.005	1.76
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.54	0.54	< 0.005	< 0.005	< 0.005	0.54
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.28	0.28	< 0.005	< 0.005	< 0.005	0.29
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Grading (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.07	1.74	16.3	17.9	0.03	0.72	—	0.72	0.66	—	0.66	—	2,959	2,959	0.12	0.02	—	2,970

Dust From Material Movement	—	—	—	—	—	—	7.11	7.11	—	3.43	3.43	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.36	0.39	< 0.005	0.02	—	0.02	0.01	—	0.01	—	64.9	64.9	< 0.005	< 0.005	—	65.1
Dust From Material Movement	—	—	—	—	—	—	0.16	0.16	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.7	10.7	< 0.005	< 0.005	—	10.8
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.08	0.93	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	207	207	0.01	0.01	0.02	210

Vendor	0.01	< 0.005	0.14	0.04	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	122	122	< 0.005	0.02	0.01	128
Hauling	0.21	0.08	6.07	1.44	0.04	0.10	1.38	1.48	0.10	0.39	0.49	—	5,240	5,240	0.10	0.82	0.29	5,489
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.60	4.60	< 0.005	< 0.005	0.01	4.67
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.68	2.68	< 0.005	< 0.005	< 0.005	2.81
Hauling	< 0.005	< 0.005	0.13	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	115	115	< 0.005	0.02	0.11	120
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.76	0.76	< 0.005	< 0.005	< 0.005	0.77
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.44	0.44	< 0.005	< 0.005	< 0.005	0.47
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	19.0	19.0	< 0.005	< 0.005	0.02	19.9

3.5. Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.35	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.04	0.03	0.29	0.36	< 0.005	0.01	—	0.01	0.01	—	0.01	—	65.7	65.7	< 0.005	< 0.005	—	65.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.9	10.9	< 0.005	< 0.005	—	10.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.32	0.29	0.33	3.97	0.00	0.00	0.89	0.89	0.00	0.21	0.21	—	881	881	0.04	0.03	0.09	892
Vendor	0.04	0.02	0.98	0.30	0.01	0.01	0.24	0.25	0.01	0.07	0.08	—	857	857	0.02	0.13	0.06	897
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	24.4	24.4	< 0.005	< 0.005	0.04	24.8
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	23.5	23.5	< 0.005	< 0.005	0.03	24.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.05	4.05	< 0.005	< 0.005	0.01	4.10
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.89	3.89	< 0.005	< 0.005	< 0.005	4.07
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.77	0.65	5.94	7.82	0.01	0.23	—	0.23	0.21	—	0.21	—	1,445	1,445	0.06	0.01	—	1,450
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	1.08	1.43	< 0.005	0.04	—	0.04	0.04	—	0.04	—	239	239	0.01	< 0.005	—	240

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.32	0.29	0.27	4.88	0.00	0.00	0.89	0.89	0.00	0.21	0.21	—	938	938	0.04	0.03	3.18	952
Vendor	0.04	0.02	0.90	0.28	0.01	0.01	0.24	0.25	0.01	0.07	0.08	—	843	843	0.02	0.13	2.30	884
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.31	0.27	0.30	3.70	0.00	0.00	0.89	0.89	0.00	0.21	0.21	—	862	862	0.01	0.03	0.08	873
Vendor	0.04	0.02	0.94	0.29	0.01	0.01	0.24	0.25	0.01	0.07	0.08	—	843	843	0.02	0.13	0.06	883
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.18	0.16	0.20	2.33	0.00	0.00	0.53	0.53	0.00	0.12	0.12	—	526	526	0.01	0.02	0.83	533
Vendor	0.02	0.01	0.57	0.17	< 0.005	0.01	0.14	0.15	0.01	0.04	0.05	—	508	508	0.01	0.08	0.60	532
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.04	0.43	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	87.1	87.1	< 0.005	< 0.005	0.14	88.3
Vendor	< 0.005	< 0.005	0.10	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	84.1	84.1	< 0.005	0.01	0.10	88.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Paving (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.81	0.68	6.23	8.81	0.01	0.26	—	0.26	0.24	—	0.24	—	1,350	1,350	0.05	0.01	—	1,355
Paving	0.52	0.52	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.31	0.43	< 0.005	0.01	—	0.01	0.01	—	0.01	—	66.6	66.6	< 0.005	< 0.005	—	66.8
Paving	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.0	11.0	< 0.005	< 0.005	—	11.1
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.09	1.09	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	254	254	< 0.005	0.01	0.02	257
Vendor	0.01	< 0.005	0.13	0.04	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	120	120	< 0.005	0.02	0.01	126
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12.7	12.7	< 0.005	< 0.005	0.02	12.8
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.94	5.94	< 0.005	< 0.005	0.01	6.22
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.10	2.10	< 0.005	< 0.005	< 0.005	2.13
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.98	0.98	< 0.005	< 0.005	< 0.005	1.03
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Architectural Coating (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	0.86	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134

Architectural Coating	3.75	3.75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.04	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.58	6.58	< 0.005	< 0.005	—	6.61
Architectural Coatings	0.18	0.18	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.09	1.09	< 0.005	< 0.005	—	1.09
Architectural Coatings	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.06	0.76	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	178	178	< 0.005	0.01	0.02	180
Vendor	0.01	< 0.005	0.13	0.04	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	120	120	< 0.005	0.02	0.01	126

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.87	8.87	< 0.005	< 0.005	0.01	8.99
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.94	5.94	< 0.005	< 0.005	0.01	6.22
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.47	1.47	< 0.005	< 0.005	< 0.005	1.49
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.98	0.98	< 0.005	< 0.005	< 0.005	1.03
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Convenience Market with Gas Pumps	10.5	9.52	9.78	93.4	0.25	0.18	22.0	22.2	0.16	5.60	5.76	—	25,308	25,308	0.90	1.07	80.3	25,730

Gasolin Station	1.24	0.66	27.2	8.75	0.23	0.40	7.14	7.55	0.39	1.91	2.30	—	24,302	24,302	0.52	3.73	55.7	25,483
Fast Food Restaurant with Drive Thru	3.39	3.08	3.17	30.2	0.08	0.06	7.14	7.19	0.05	1.81	1.86	—	8,191	8,191	0.29	0.35	26.0	8,327
Total	15.1	13.3	40.2	132	0.55	0.64	36.3	37.0	0.60	9.32	9.92	—	57,801	57,801	1.71	5.15	162	59,539
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Convenience Market with Gas Pumps	9.91	8.95	10.5	77.6	0.23	0.18	22.0	22.2	0.16	5.60	5.76	—	23,768	23,768	0.92	1.10	2.08	24,123
Gasoline/Service Station	1.19	0.62	28.5	8.85	0.23	0.40	7.14	7.55	0.39	1.91	2.30	—	24,314	24,314	0.52	3.74	1.45	25,442
Fast Food Restaurant with Drive Thru	3.21	2.90	3.39	25.1	0.08	0.06	7.14	7.19	0.05	1.81	1.86	—	7,693	7,693	0.30	0.36	0.67	7,807
Total	14.3	12.5	42.4	112	0.53	0.64	36.3	37.0	0.60	9.32	9.92	—	55,775	55,775	1.75	5.20	4.20	57,372
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Convenience Market with Gas Pumps	1.80	1.62	1.95	14.7	0.04	0.03	3.96	3.99	0.03	1.00	1.03	—	3,972	3,972	0.15	0.18	5.74	4,037
Gasoline/Service Station	0.22	0.12	5.22	1.60	0.04	0.07	1.29	1.36	0.07	0.34	0.41	—	4,024	4,024	0.09	0.62	3.98	4,214
Fast Food Restaurant with Drive Thru	0.58	0.52	0.63	4.75	0.01	0.01	1.28	1.29	0.01	0.33	0.33	—	1,286	1,286	0.05	0.06	1.86	1,306
Total	2.60	2.26	7.80	21.0	0.10	0.12	6.52	6.64	0.11	1.67	1.78	—	9,281	9,281	0.29	0.86	11.6	9,557

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	14.0	14.0	< 0.005	< 0.005	—	14.1

Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	—	17.2	17.2	< 0.005	< 0.005	—	17.3
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	2.56	2.56	< 0.005	< 0.005	—	2.57
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	59.0	59.0	0.01	< 0.005	—	59.4
Total	—	—	—	—	—	—	—	—	—	—	—	—	92.8	92.8	0.01	< 0.005	—	93.3
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	14.0	14.0	< 0.005	< 0.005	—	14.1
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	—	17.2	17.2	< 0.005	< 0.005	—	17.3
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	2.56	2.56	< 0.005	< 0.005	—	2.57
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	59.0	59.0	0.01	< 0.005	—	59.4

Total	—	—	—	—	—	—	—	—	—	—	—	—	92.8	92.8	0.01	< 0.005	—	93.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	2.32	2.32	< 0.005	< 0.005	—	2.33
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	—	2.85	2.85	< 0.005	< 0.005	—	2.86
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	0.42	0.42	< 0.005	< 0.005	—	0.43
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	9.77	9.77	< 0.005	< 0.005	—	9.83
Total	—	—	—	—	—	—	—	—	—	—	—	—	15.4	15.4	< 0.005	< 0.005	—	15.4

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Convenience Market with Gas Pumps	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.04	3.04	< 0.005	< 0.005	—	3.05
Gasoline/Service Station	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.88	3.88	< 0.005	< 0.005	—	3.89
Fast Food Restaurant with Drive Thru	0.01	< 0.005	0.05	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	64.8	64.8	0.01	< 0.005	—	65.0
Total	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	71.7	71.7	0.01	< 0.005	—	71.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Convenience Market with Gas Pumps	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.04	3.04	< 0.005	< 0.005	—	3.05
Gasoline/Service Station	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.88	3.88	< 0.005	< 0.005	—	3.89
Fast Food Restaurant with Drive Thru	0.01	< 0.005	0.05	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	64.8	64.8	0.01	< 0.005	—	65.0
Total	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	71.7	71.7	0.01	< 0.005	—	71.9

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Convenience Market with Gas Pumps	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.50	0.50	< 0.005	< 0.005	—	0.50
Gasoline/Service Station	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.64	0.64	< 0.005	< 0.005	—	0.64
Fast Food Restaurant with Drive Thru	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.7	10.7	< 0.005	< 0.005	—	10.8
Total	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.9	11.9	< 0.005	< 0.005	—	11.9

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.02	0.02	< 0.005	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.47	0.47	< 0.005	< 0.005	—	0.47
Total	0.11	0.11	< 0.005	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.47	0.47	< 0.005	< 0.005	—	0.47
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.09	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.05	0.05	< 0.005	< 0.005	—	0.05
Total	0.02	0.02	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.05	0.05	< 0.005	< 0.005	—	0.05

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	1.00	5.27	6.27	0.10	< 0.005	—	9.59
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.05	0.17	0.22	0.01	< 0.005	—	0.39
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	1.03	3.47	4.50	0.11	< 0.005	—	7.91
Total	—	—	—	—	—	—	—	—	—	—	—	2.08	8.92	11.0	0.21	0.01	—	17.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	1.00	5.27	6.27	0.10	< 0.005	—	9.59
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.05	0.17	0.22	0.01	< 0.005	—	0.39
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	1.03	3.47	4.50	0.11	< 0.005	—	7.91
Total	—	—	—	—	—	—	—	—	—	—	—	2.08	8.92	11.0	0.21	0.01	—	17.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	0.17	0.87	1.04	0.02	< 0.005	—	1.59
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.01	0.03	0.04	< 0.005	< 0.005	—	0.06
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.17	0.57	0.75	0.02	< 0.005	—	1.31
Total	—	—	—	—	—	—	—	—	—	—	—	0.34	1.48	1.82	0.04	< 0.005	—	2.96

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	0.91	0.00	0.91	0.09	0.00	—	3.20
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.58	0.00	0.58	0.06	0.00	—	2.03
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	11.0	0.00	11.0	1.10	0.00	—	38.5
Total	—	—	—	—	—	—	—	—	—	—	—	12.5	0.00	12.5	1.25	0.00	—	43.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	0.91	0.00	0.91	0.09	0.00	—	3.20
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.58	0.00	0.58	0.06	0.00	—	2.03
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	11.0	0.00	11.0	1.10	0.00	—	38.5
Total	—	—	—	—	—	—	—	—	—	—	—	12.5	0.00	12.5	1.25	0.00	—	43.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	0.15	0.00	0.15	0.02	0.00	—	0.53
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.10	0.00	0.10	0.01	0.00	—	0.34
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	1.82	0.00	1.82	0.18	0.00	—	6.37

Total	—	—	—	—	—	—	—	—	—	—	—	2.07	0.00	2.07	0.21	0.00	—	7.24

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	117	117
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.77	2.77
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	120	120
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	117	117
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.77	2.77

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	120	120
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	19.4	19.4
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.46	0.46
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	19.9	19.9

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	12/1/2025	12/5/2025	5.00	5.00	—
Grading	Grading	12/6/2025	12/17/2025	5.00	8.00	—
Building Construction	Building Construction	12/18/2025	11/4/2026	5.00	230	—
Paving	Paving	11/5/2026	11/30/2026	5.00	18.0	—
Architectural Coating	Architectural Coating	12/1/2026	12/24/2026	5.00	18.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41

Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Cement and Mortar Mixers	Diesel	Average	2.00	6.00	10.0	0.56
Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	6.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	6.00	36.0	0.38
Paving	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	18.0	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	4.00	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	16.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	4.00	10.2	HHDT,MHDT

Grading	Hauling	76.0	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	68.0	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	28.0	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	20.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	4.00	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	14.0	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	4.00	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	3,929	1,310	9,323

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	—	—	7.50	0.00	—
Grading	—	4,816	8.00	0.00	—
Paving	0.00	0.00	0.00	0.00	3.57

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Other Asphalt Surfaces	3.18	100%
Parking Lot	0.39	100%
Convenience Market with Gas Pumps	0.00	0%
Gasoline/Service Station	0.00	0%
Fast Food Restaurant with Drive Thru	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2025	0.00	532	0.03	< 0.005
2026	0.00	532	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Convenience Market with Gas Pumps	2,322	2,322	2,322	847,539	31,135	31,135	31,135	11,364,202
Gasoline/Service Station	619	619	619	226,009	8,303	8,303	8,303	3,030,440
Fast Food Restaurant with Drive Thru	752	752	752	274,304	10,077	10,077	10,077	3,678,001

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	3,929	1,310	9,323

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00
Parking Lot	14,767	346	0.0330	0.0040	0.00
Convenience Market with Gas Pumps	18,125	346	0.0330	0.0040	9,483
Gasoline/Service Station	2,698	346	0.0330	0.0040	12,112
Fast Food Restaurant with Drive Thru	62,224	346	0.0330	0.0040	202,112

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Other Asphalt Surfaces	0.00	0.00
Parking Lot	0.00	0.00
Convenience Market with Gas Pumps	521,026	379,342
Gasoline/Service Station	26,564	0.00
Fast Food Restaurant with Drive Thru	537,862	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Other Asphalt Surfaces	0.00	—
Parking Lot	0.00	—
Convenience Market with Gas Pumps	1.69	—
Gasoline/Service Station	1.08	—
Fast Food Restaurant with Drive Thru	20.4	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Convenience Market with Gas Pumps	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Convenience Market with Gas Pumps	Supermarket refrigeration and condensing units	R-404A	3,922	26.5	16.5	16.5	18.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm

Sea Level Rise	—	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A

Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	100
AQ-PM	46.7
AQ-DPM	62.3
Drinking Water	49.6
Lead Risk Housing	31.0
Pesticides	2.00
Toxic Releases	42.8
Traffic	61.1
Effect Indicators	—

CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	65.9
Impaired Water Bodies	0.00
Solid Waste	0.00
Sensitive Population	—
Asthma	29.1
Cardio-vascular	59.6
Low Birth Weights	33.7
Socioeconomic Factor Indicators	—
Education	53.1
Housing	28.2
Linguistic	5.64
Poverty	44.1
Unemployment	65.6

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	49.39047863
Employed	7.955857821
Median HI	28.39727961
Education	—
Bachelor's or higher	26.08751444
High school enrollment	100
Preschool enrollment	1.873476197
Transportation	—

Auto Access	49.51879892
Active commuting	1.039394328
Social	—
2-parent households	69.19029899
Voting	52.71397408
Neighborhood	—
Alcohol availability	64.81457718
Park access	7.108943924
Retail density	18.0803285
Supermarket access	33.60708328
Tree canopy	28.66675221
Housing	—
Homeownership	88.78480688
Housing habitability	65.43051456
Low-inc homeowner severe housing cost burden	14.98780957
Low-inc renter severe housing cost burden	43.75721802
Uncrowded housing	68.66418581
Health Outcomes	—
Insured adults	54.27948159
Arthritis	0.0
Asthma ER Admissions	71.8
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	6.1

Cognitively Disabled	17.4
Physically Disabled	20.3
Heart Attack ER Admissions	14.8
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	45.8
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	16.1
SLR Inundation Area	0.0
Children	90.2
Elderly	16.2
English Speaking	59.2
Foreign-born	10.6
Outdoor Workers	12.6
Climate Change Adaptive Capacity	—
Impervious Surface Cover	86.4
Traffic Density	61.9
Traffic Access	23.0
Other Indices	—
Hardship	60.4
Other Decision Support	—

2016 Voting	74.2

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	35.0
Healthy Places Index Score for Project Location (b)	26.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	No demolition.
Construction: Trips and VMT	Based on applicant provided information.
Operations: Water and Waste Water	Based on landscaping plan.
Operations: Vehicle Data	Based on traffic impact analysis.
Operations: Fleet Mix	EMFAC fleet mix for diesel vehicles fueled in Riverside County.

Sandalwood Travel Center LST Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Sandalwood Travel Center LST
Construction Start Date	12/1/2025
Operational Year	2027
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.994378286813955, -117.06085332727126
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5623
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Other Asphalt Surfaces	3.18	Acre	3.18	0.00	0.00	0.00	—	—

Parking Lot	43.0	Space	0.39	0.00	0.00	—	—	—
Convenience Market with Gas Pumps	4.00	Pump	0.01	565	0.00	—	—	—
Gasoline/Service Station	2.00	Pump	0.01	282	0.00	—	—	—
Fast Food Restaurant with Drive Thru	1.77	1000sqft	0.04	1,772	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.28	1.07	9.85	13.0	0.02	0.38	0.00	0.38	0.35	0.00	0.35	—	2,397	2,397	0.10	0.02	0.00	2,405
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.94	3.87	31.6	30.2	0.05	1.37	19.7	21.0	1.26	10.1	11.4	—	5,295	5,295	0.21	0.04	0.00	5,314
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.03	0.90	6.29	8.31	0.01	0.24	0.43	0.47	0.22	0.21	0.26	—	1,518	1,518	0.06	0.01	0.00	1,523
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.19	0.16	1.15	1.52	< 0.005	0.04	0.08	0.09	0.04	0.04	0.05	—	251	251	0.01	< 0.005	0.00	252

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.28	1.07	9.85	13.0	0.02	0.38	0.00	0.38	0.35	0.00	0.35	—	2,397	2,397	0.10	0.02	0.00	2,405
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	3.94	3.31	31.6	30.2	0.05	1.37	19.7	21.0	1.26	10.1	11.4	—	5,295	5,295	0.21	0.04	0.00	5,314
2026	3.90	3.87	9.85	13.0	0.02	0.38	0.00	0.38	0.35	0.00	0.35	—	2,397	2,397	0.10	0.02	0.00	2,405
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.14	0.11	1.08	1.16	< 0.005	0.05	0.43	0.47	0.04	0.21	0.26	—	203	203	0.01	< 0.005	0.00	204
2026	1.03	0.90	6.29	8.31	0.01	0.24	0.00	0.24	0.22	0.00	0.22	—	1,518	1,518	0.06	0.01	0.00	1,523
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.02	0.02	0.20	0.21	< 0.005	0.01	0.08	0.09	0.01	0.04	0.05	—	33.6	33.6	< 0.005	< 0.005	0.00	33.7
2026	0.19	0.16	1.15	1.52	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	—	251	251	0.01	< 0.005	0.00	252

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	15.2	13.4	40.2	133	0.55	0.64	36.3	37.0	0.61	9.32	9.93	14.6	57,975	57,989	3.19	5.15	282	59,887
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	14.4	12.5	42.4	112	0.53	0.64	36.3	37.0	0.61	9.32	9.93	14.6	55,949	55,963	3.22	5.20	124	57,719

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	14.4	12.5	42.8	115	0.54	0.64	35.8	36.4	0.61	9.17	9.78	14.6	56,234	56,249	3.23	5.22	190	58,074
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.62	2.28	7.81	21.1	0.10	0.12	6.52	6.64	0.11	1.67	1.79	2.41	9,310	9,313	0.53	0.86	31.4	9,615

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	15.1	13.3	40.2	132	0.55	0.64	36.3	37.0	0.60	9.32	9.92	—	57,801	57,801	1.71	5.15	162	59,539
Area	0.11	0.11	< 0.005	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.47	0.47	< 0.005	< 0.005	—	0.47
Energy	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	164	164	0.02	< 0.005	—	165
Water	—	—	—	—	—	—	—	—	—	—	—	2.08	8.92	11.0	0.21	0.01	—	17.9
Waste	—	—	—	—	—	—	—	—	—	—	—	12.5	0.00	12.5	1.25	0.00	—	43.7
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	120	120
Total	15.2	13.4	40.2	133	0.55	0.64	36.3	37.0	0.61	9.32	9.93	14.6	57,975	57,989	3.19	5.15	282	59,887
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	14.3	12.5	42.4	112	0.53	0.64	36.3	37.0	0.60	9.32	9.92	—	55,775	55,775	1.75	5.20	4.20	57,372
Area	0.09	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	164	164	0.02	< 0.005	—	165
Water	—	—	—	—	—	—	—	—	—	—	—	2.08	8.92	11.0	0.21	0.01	—	17.9
Waste	—	—	—	—	—	—	—	—	—	—	—	12.5	0.00	12.5	1.25	0.00	—	43.7
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	120	120
Total	14.4	12.5	42.4	112	0.53	0.64	36.3	37.0	0.61	9.32	9.93	14.6	55,949	55,963	3.22	5.20	124	57,719

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	14.2	12.4	42.7	115	0.54	0.64	35.8	36.4	0.60	9.17	9.78	—	56,061	56,061	1.75	5.21	69.9	57,727
Area	0.10	0.10	< 0.005	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.32	0.32	< 0.005	< 0.005	—	0.32
Energy	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	164	164	0.02	< 0.005	—	165
Water	—	—	—	—	—	—	—	—	—	—	—	2.08	8.92	11.0	0.21	0.01	—	17.9
Waste	—	—	—	—	—	—	—	—	—	—	—	12.5	0.00	12.5	1.25	0.00	—	43.7
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	120	120
Total	14.4	12.5	42.8	115	0.54	0.64	35.8	36.4	0.61	9.17	9.78	14.6	56,234	56,249	3.23	5.22	190	58,074
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.60	2.26	7.80	21.0	0.10	0.12	6.52	6.64	0.11	1.67	1.78	—	9,281	9,281	0.29	0.86	11.6	9,557
Area	0.02	0.02	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.05	0.05	< 0.005	< 0.005	—	0.05
Energy	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	27.2	27.2	< 0.005	< 0.005	—	27.4
Water	—	—	—	—	—	—	—	—	—	—	—	0.34	1.48	1.82	0.04	< 0.005	—	2.96
Waste	—	—	—	—	—	—	—	—	—	—	—	2.07	0.00	2.07	0.21	0.00	—	7.24
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	19.9	19.9
Total	2.62	2.28	7.81	21.1	0.10	0.12	6.52	6.64	0.11	1.67	1.79	2.41	9,310	9,313	0.53	0.86	31.4	9,615

3. Construction Emissions Details

3.1. Site Preparation (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	3.94	3.31	31.6	30.2	0.05	1.37	—	1.37	1.26	—	1.26	—	5,295	5,295	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	0.43	0.41	< 0.005	0.02	—	0.02	0.02	—	0.02	—	72.5	72.5	< 0.005	< 0.005	—	72.8
Dust From Material Movement	—	—	—	—	—	—	0.27	0.27	—	0.14	0.14	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.0	12.0	< 0.005	< 0.005	—	12.1
Dust From Material Movement	—	—	—	—	—	—	0.05	0.05	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Grading (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.07	1.74	16.3	17.9	0.03	0.72	—	0.72	0.66	—	0.66	—	2,959	2,959	0.12	0.02	—	2,970

Dust From Material Movement	—	—	—	—	—	—	7.11	7.11	—	3.43	3.43	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.36	0.39	< 0.005	0.02	—	0.02	0.01	—	0.01	—	64.9	64.9	< 0.005	< 0.005	—	65.1
Dust From Material Movement	—	—	—	—	—	—	0.16	0.16	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.7	10.7	< 0.005	< 0.005	—	10.8
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.35	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.04	0.03	0.29	0.36	< 0.005	0.01	—	0.01	0.01	—	0.01	—	65.7	65.7	< 0.005	< 0.005	—	65.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.9	10.9	< 0.005	< 0.005	—	10.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.77	0.65	5.94	7.82	0.01	0.23	—	0.23	0.21	—	0.21	—	1,445	1,445	0.06	0.01	—	1,450
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	1.08	1.43	< 0.005	0.04	—	0.04	0.04	—	0.04	—	239	239	0.01	< 0.005	—	240

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Paving (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.81	0.68	6.23	8.81	0.01	0.26	—	0.26	0.24	—	0.24	—	1,350	1,350	0.05	0.01	—	1,355
Paving	0.52	0.52	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.31	0.43	< 0.005	0.01	—	0.01	0.01	—	0.01	—	66.6	66.6	< 0.005	< 0.005	—	66.8
Paving	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.0	11.0	< 0.005	< 0.005	—	11.1
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Architectural Coating (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	0.86	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134

Architectural Coating	3.75	3.75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.04	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.58	6.58	< 0.005	< 0.005	—	6.61
Architectural Coatings	0.18	0.18	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.09	1.09	< 0.005	< 0.005	—	1.09
Architectural Coatings	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Convenience Market with Gas Pumps	10.5	9.52	9.78	93.4	0.25	0.18	22.0	22.2	0.16	5.60	5.76	—	25,308	25,308	0.90	1.07	80.3	25,730

Gasolin Station	1.24	0.66	27.2	8.75	0.23	0.40	7.14	7.55	0.39	1.91	2.30	—	24,302	24,302	0.52	3.73	55.7	25,483
Fast Food Restaurant with Drive Thru	3.39	3.08	3.17	30.2	0.08	0.06	7.14	7.19	0.05	1.81	1.86	—	8,191	8,191	0.29	0.35	26.0	8,327
Total	15.1	13.3	40.2	132	0.55	0.64	36.3	37.0	0.60	9.32	9.92	—	57,801	57,801	1.71	5.15	162	59,539
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Convenience Market with Gas Pumps	9.91	8.95	10.5	77.6	0.23	0.18	22.0	22.2	0.16	5.60	5.76	—	23,768	23,768	0.92	1.10	2.08	24,123
Gasoline/Service Station	1.19	0.62	28.5	8.85	0.23	0.40	7.14	7.55	0.39	1.91	2.30	—	24,314	24,314	0.52	3.74	1.45	25,442
Fast Food Restaurant with Drive Thru	3.21	2.90	3.39	25.1	0.08	0.06	7.14	7.19	0.05	1.81	1.86	—	7,693	7,693	0.30	0.36	0.67	7,807
Total	14.3	12.5	42.4	112	0.53	0.64	36.3	37.0	0.60	9.32	9.92	—	55,775	55,775	1.75	5.20	4.20	57,372
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Convenience Market with Gas Pumps	1.80	1.62	1.95	14.7	0.04	0.03	3.96	3.99	0.03	1.00	1.03	—	3,972	3,972	0.15	0.18	5.74	4,037
Gasoline/Service Station	0.22	0.12	5.22	1.60	0.04	0.07	1.29	1.36	0.07	0.34	0.41	—	4,024	4,024	0.09	0.62	3.98	4,214
Fast Food Restaurant with Drive Thru	0.58	0.52	0.63	4.75	0.01	0.01	1.28	1.29	0.01	0.33	0.33	—	1,286	1,286	0.05	0.06	1.86	1,306
Total	2.60	2.26	7.80	21.0	0.10	0.12	6.52	6.64	0.11	1.67	1.78	—	9,281	9,281	0.29	0.86	11.6	9,557

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	14.0	14.0	< 0.005	< 0.005	—	14.1

Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	—	17.2	17.2	< 0.005	< 0.005	—	17.3
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	2.56	2.56	< 0.005	< 0.005	—	2.57
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	59.0	59.0	0.01	< 0.005	—	59.4
Total	—	—	—	—	—	—	—	—	—	—	—	—	92.8	92.8	0.01	< 0.005	—	93.3
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	14.0	14.0	< 0.005	< 0.005	—	14.1
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	—	17.2	17.2	< 0.005	< 0.005	—	17.3
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	2.56	2.56	< 0.005	< 0.005	—	2.57
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	59.0	59.0	0.01	< 0.005	—	59.4

Total	—	—	—	—	—	—	—	—	—	—	—	—	92.8	92.8	0.01	< 0.005	—	93.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	2.32	2.32	< 0.005	< 0.005	—	2.33
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	—	2.85	2.85	< 0.005	< 0.005	—	2.86
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	0.42	0.42	< 0.005	< 0.005	—	0.43
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	9.77	9.77	< 0.005	< 0.005	—	9.83
Total	—	—	—	—	—	—	—	—	—	—	—	—	15.4	15.4	< 0.005	< 0.005	—	15.4

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Convenience Market with Gas Pumps	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.04	3.04	< 0.005	< 0.005	—	3.05
Gasoline/Service Station	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.88	3.88	< 0.005	< 0.005	—	3.89
Fast Food Restaurant with Drive Thru	0.01	< 0.005	0.05	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	64.8	64.8	0.01	< 0.005	—	65.0
Total	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	71.7	71.7	0.01	< 0.005	—	71.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Convenience Market with Gas Pumps	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.04	3.04	< 0.005	< 0.005	—	3.05
Gasoline/Service Station	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.88	3.88	< 0.005	< 0.005	—	3.89
Fast Food Restaurant with Drive Thru	0.01	< 0.005	0.05	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	64.8	64.8	0.01	< 0.005	—	65.0
Total	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	71.7	71.7	0.01	< 0.005	—	71.9

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Convenience Market with Gas Pumps	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.50	0.50	< 0.005	< 0.005	—	0.50
Gasoline/Service Station	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.64	0.64	< 0.005	< 0.005	—	0.64
Fast Food Restaurant with Drive Thru	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.7	10.7	< 0.005	< 0.005	—	10.8
Total	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.9	11.9	< 0.005	< 0.005	—	11.9

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.02	0.02	< 0.005	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.47	0.47	< 0.005	< 0.005	—	0.47
Total	0.11	0.11	< 0.005	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.47	0.47	< 0.005	< 0.005	—	0.47
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.09	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.05	0.05	< 0.005	< 0.005	—	0.05
Total	0.02	0.02	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.05	0.05	< 0.005	< 0.005	—	0.05

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	1.00	5.27	6.27	0.10	< 0.005	—	9.59
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.05	0.17	0.22	0.01	< 0.005	—	0.39
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	1.03	3.47	4.50	0.11	< 0.005	—	7.91
Total	—	—	—	—	—	—	—	—	—	—	—	2.08	8.92	11.0	0.21	0.01	—	17.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	1.00	5.27	6.27	0.10	< 0.005	—	9.59
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.05	0.17	0.22	0.01	< 0.005	—	0.39
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	1.03	3.47	4.50	0.11	< 0.005	—	7.91
Total	—	—	—	—	—	—	—	—	—	—	—	2.08	8.92	11.0	0.21	0.01	—	17.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	0.17	0.87	1.04	0.02	< 0.005	—	1.59
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.01	0.03	0.04	< 0.005	< 0.005	—	0.06
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.17	0.57	0.75	0.02	< 0.005	—	1.31
Total	—	—	—	—	—	—	—	—	—	—	—	0.34	1.48	1.82	0.04	< 0.005	—	2.96

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	0.91	0.00	0.91	0.09	0.00	—	3.20
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.58	0.00	0.58	0.06	0.00	—	2.03
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	11.0	0.00	11.0	1.10	0.00	—	38.5
Total	—	—	—	—	—	—	—	—	—	—	—	12.5	0.00	12.5	1.25	0.00	—	43.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	0.91	0.00	0.91	0.09	0.00	—	3.20
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.58	0.00	0.58	0.06	0.00	—	2.03
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	11.0	0.00	11.0	1.10	0.00	—	38.5
Total	—	—	—	—	—	—	—	—	—	—	—	12.5	0.00	12.5	1.25	0.00	—	43.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	0.15	0.00	0.15	0.02	0.00	—	0.53
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.10	0.00	0.10	0.01	0.00	—	0.34
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	1.82	0.00	1.82	0.18	0.00	—	6.37

Total	—	—	—	—	—	—	—	—	—	—	—	2.07	0.00	2.07	0.21	0.00	—	7.24

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	117	117
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.77	2.77
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	120	120
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	117	117
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.77	2.77

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	120	120
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	19.4	19.4
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.46	0.46
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	19.9	19.9

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	12/1/2025	12/5/2025	5.00	5.00	—
Grading	Grading	12/6/2025	12/17/2025	5.00	8.00	—
Building Construction	Building Construction	12/18/2025	11/4/2026	5.00	230	—
Paving	Paving	11/5/2026	11/30/2026	5.00	18.0	—
Architectural Coating	Architectural Coating	12/1/2026	12/24/2026	5.00	18.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41

Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Cement and Mortar Mixers	Diesel	Average	2.00	6.00	10.0	0.56
Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	6.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	6.00	36.0	0.38
Paving	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	0.00	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	0.00	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	0.00	18.5	LDA,LDT1,LDT2
Grading	Vendor	0.00	10.2	HHDT,MHDT

Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	0.00	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	0.00	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	0.00	18.5	LDA,LDT1,LDT2
Paving	Vendor	0.00	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	0.00	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	0.00	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	3,929	1,310	9,323

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	—	—	7.50	0.00	—
Grading	—	4,816	8.00	0.00	—
Paving	0.00	0.00	0.00	0.00	3.57

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Other Asphalt Surfaces	3.18	100%
Parking Lot	0.39	100%
Convenience Market with Gas Pumps	0.00	0%
Gasoline/Service Station	0.00	0%
Fast Food Restaurant with Drive Thru	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2025	0.00	532	0.03	< 0.005
2026	0.00	532	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Convenience Market with Gas Pumps	2,322	2,322	2,322	847,539	31,135	31,135	31,135	11,364,202
Gasoline/Service Station	619	619	619	226,009	8,303	8,303	8,303	3,030,440
Fast Food Restaurant with Drive Thru	752	752	752	274,304	10,077	10,077	10,077	3,678,001

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	3,929	1,310	9,323

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00
Parking Lot	14,767	346	0.0330	0.0040	0.00
Convenience Market with Gas Pumps	18,125	346	0.0330	0.0040	9,483
Gasoline/Service Station	2,698	346	0.0330	0.0040	12,112
Fast Food Restaurant with Drive Thru	62,224	346	0.0330	0.0040	202,112

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Other Asphalt Surfaces	0.00	0.00
Parking Lot	0.00	0.00
Convenience Market with Gas Pumps	521,026	379,342
Gasoline/Service Station	26,564	0.00
Fast Food Restaurant with Drive Thru	537,862	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Other Asphalt Surfaces	0.00	—
Parking Lot	0.00	—
Convenience Market with Gas Pumps	1.69	—
Gasoline/Service Station	1.08	—
Fast Food Restaurant with Drive Thru	20.4	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Convenience Market with Gas Pumps	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Convenience Market with Gas Pumps	Supermarket refrigeration and condensing units	R-404A	3,922	26.5	16.5	16.5	18.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm

Sea Level Rise	—	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A

Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	100
AQ-PM	46.7
AQ-DPM	62.3
Drinking Water	49.6
Lead Risk Housing	31.0
Pesticides	2.00
Toxic Releases	42.8
Traffic	61.1
Effect Indicators	—

CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	65.9
Impaired Water Bodies	0.00
Solid Waste	0.00
Sensitive Population	—
Asthma	29.1
Cardio-vascular	59.6
Low Birth Weights	33.7
Socioeconomic Factor Indicators	—
Education	53.1
Housing	28.2
Linguistic	5.64
Poverty	44.1
Unemployment	65.6

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	49.39047863
Employed	7.955857821
Median HI	28.39727961
Education	—
Bachelor's or higher	26.08751444
High school enrollment	100
Preschool enrollment	1.873476197
Transportation	—

Auto Access	49.51879892
Active commuting	1.039394328
Social	—
2-parent households	69.19029899
Voting	52.71397408
Neighborhood	—
Alcohol availability	64.81457718
Park access	7.108943924
Retail density	18.0803285
Supermarket access	33.60708328
Tree canopy	28.66675221
Housing	—
Homeownership	88.78480688
Housing habitability	65.43051456
Low-inc homeowner severe housing cost burden	14.98780957
Low-inc renter severe housing cost burden	43.75721802
Uncrowded housing	68.66418581
Health Outcomes	—
Insured adults	54.27948159
Arthritis	0.0
Asthma ER Admissions	71.8
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	6.1

Cognitively Disabled	17.4
Physically Disabled	20.3
Heart Attack ER Admissions	14.8
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	45.8
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	16.1
SLR Inundation Area	0.0
Children	90.2
Elderly	16.2
English Speaking	59.2
Foreign-born	10.6
Outdoor Workers	12.6
Climate Change Adaptive Capacity	—
Impervious Surface Cover	86.4
Traffic Density	61.9
Traffic Access	23.0
Other Indices	—
Hardship	60.4
Other Decision Support	—

2016 Voting	74.2

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	35.0
Healthy Places Index Score for Project Location (b)	26.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	No demolition.
Construction: Trips and VMT	Based on applicant provided information.
Operations: Water and Waste Water	Based on landscaping plan.
Operations: Vehicle Data	Based on traffic impact analysis.
Operations: Fleet Mix	EMFAC fleet mix for diesel vehicles fueled in Riverside County.

Sandalwood Travel Center Gasoline VOC Emissions

Annual Throughput Gasoline: 1,800,000 gal/year
Operating Schedule: 365 days/year

	VOC lb/1,000 gal	VOC lb/year	VOC lb/day
Loading	0.15	270.00	0.74
Breathing	0.024	43.20	0.12
Refueling	0.32	576.00	1.58
Hose Permeation	0.009	16.20	0.04
Spillage	0.24	432.00	1.18
	TOTAL	**1,337.40**	**3.66**

Source: https://www.aqmd.gov/docs/default-source/permitting/hra-procedures/hraprocedures9-0_103124.pdf?sfvrsn=8
Notes: gal = gallon; lb = pound

Annual Throughput E-85: 75,000 gal/year
Operating Schedule: 365 days/year

	VOC lb/1,000 gal	VOC lb/year	VOC lb/day
Loading	0.15	11.25	0.03
Breathing	0.76	57.00	0.16
Refueling	0.42	31.50	0.09
Hose Permeation	0.009	0.68	0.00
Spillage	0.61	45.75	0.13
	TOTAL	**146.18**	**0.40**

Source: https://www.aqmd.gov/docs/default-source/permitting/hra-procedures/hraprocedures9-0_103124.pdf?sfvrsn=8
Notes: gal = gallon; lb = pound

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HRA Modeling Results

Prepared by Dudek, December 2024

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Sandalwood Travel Center HRA Detailed Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Sandalwood Travel Center HRA
Construction Start Date	12/1/2025
Operational Year	2027
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.994378286813955, -117.06085332727126
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5623
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Other Asphalt Surfaces	3.18	Acre	3.18	0.00	0.00	0.00	—	—

Parking Lot	43.0	Space	0.39	0.00	0.00	—	—	—
Convenience Market with Gas Pumps	4.00	Pump	0.01	565	0.00	—	—	—
Gasoline/Service Station	2.00	Pump	0.01	282	0.00	—	—	—
Fast Food Restaurant with Drive Thru	1.77	1000sqft	0.04	1,772	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.30	1.08	10.1	13.1	0.02	0.38	0.01	0.38	0.35	< 0.005	0.35	—	2,445	2,445	0.10	0.03	0.06	2,456
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.94	3.87	31.7	30.2	0.05	1.37	19.7	21.0	1.26	10.1	11.4	—	5,302	5,302	0.22	0.06	< 0.005	5,321
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.04	0.90	6.47	8.42	0.01	0.24	0.43	0.47	0.22	0.21	0.26	—	1,548	1,548	0.07	0.02	0.01	1,554
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.19	0.16	1.18	1.54	< 0.005	0.04	0.08	0.09	0.04	0.04	0.05	—	256	256	0.01	< 0.005	< 0.005	257

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.30	1.08	10.1	13.1	0.02	0.38	0.01	0.38	0.35	< 0.005	0.35	—	2,445	2,445	0.10	0.03	0.06	2,456
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	3.94	3.31	31.7	30.2	0.05	1.37	19.7	21.0	1.26	10.1	11.4	—	5,302	5,302	0.22	0.06	< 0.005	5,321
2026	3.90	3.87	10.2	13.2	0.02	0.38	0.01	0.38	0.35	< 0.005	0.35	—	2,446	2,446	0.10	0.03	< 0.005	2,456
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.14	0.12	1.11	1.19	< 0.005	0.05	0.43	0.47	0.04	0.21	0.26	—	209	209	0.01	< 0.005	< 0.005	210
2026	1.04	0.90	6.47	8.42	0.01	0.24	< 0.005	0.25	0.22	< 0.005	0.22	—	1,548	1,548	0.07	0.02	0.01	1,554
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.03	0.02	0.20	0.22	< 0.005	0.01	0.08	0.09	0.01	0.04	0.05	—	34.6	34.6	< 0.005	< 0.005	< 0.005	34.7
2026	0.19	0.16	1.18	1.54	< 0.005	0.04	< 0.005	0.04	0.04	< 0.005	0.04	—	256	256	0.01	< 0.005	< 0.005	257

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.73	0.49	7.56	5.28	0.02	0.02	0.27	0.29	0.02	0.07	0.09	14.6	1,796	1,811	1.68	0.26	122	2,054
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.66	0.43	7.97	5.34	0.02	0.02	0.27	0.29	0.02	0.07	0.09	14.6	1,813	1,828	1.68	0.27	120	2,069

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.70	0.46	7.76	5.33	0.02	0.02	0.26	0.29	0.02	0.07	0.09	14.6	1,803	1,818	1.68	0.27	121	2,060
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.13	0.08	1.42	0.97	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	2.41	299	301	0.28	0.04	20.0	341

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.61	0.38	7.49	5.11	0.01	0.02	0.27	0.29	0.02	0.07	0.09	—	1,623	1,623	0.20	0.26	2.09	1,707
Area	0.11	0.11	< 0.005	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.47	0.47	< 0.005	< 0.005	—	0.47
Energy	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	164	164	0.02	< 0.005	—	165
Water	—	—	—	—	—	—	—	—	—	—	—	2.08	8.92	11.0	0.21	0.01	—	17.9
Waste	—	—	—	—	—	—	—	—	—	—	—	12.5	0.00	12.5	1.25	0.00	—	43.7
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	120	120
Total	0.73	0.49	7.56	5.28	0.02	0.02	0.27	0.29	0.02	0.07	0.09	14.6	1,796	1,811	1.68	0.26	122	2,054
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.56	0.34	7.91	5.29	0.01	0.02	0.27	0.29	0.02	0.07	0.09	—	1,640	1,640	0.20	0.26	0.05	1,723
Area	0.09	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	164	164	0.02	< 0.005	—	165
Water	—	—	—	—	—	—	—	—	—	—	—	2.08	8.92	11.0	0.21	0.01	—	17.9
Waste	—	—	—	—	—	—	—	—	—	—	—	12.5	0.00	12.5	1.25	0.00	—	43.7
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	120	120
Total	0.66	0.43	7.97	5.34	0.02	0.02	0.27	0.29	0.02	0.07	0.09	14.6	1,813	1,828	1.68	0.27	120	2,069

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.59	0.36	7.70	5.20	0.01	0.02	0.26	0.28	0.02	0.07	0.09	—	1,630	1,630	0.20	0.26	0.90	1,713
Area	0.10	0.10	< 0.005	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.32	0.32	< 0.005	< 0.005	—	0.32
Energy	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	164	164	0.02	< 0.005	—	165
Water	—	—	—	—	—	—	—	—	—	—	—	2.08	8.92	11.0	0.21	0.01	—	17.9
Waste	—	—	—	—	—	—	—	—	—	—	—	12.5	0.00	12.5	1.25	0.00	—	43.7
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	120	120
Total	0.70	0.46	7.76	5.33	0.02	0.02	0.26	0.29	0.02	0.07	0.09	14.6	1,803	1,818	1.68	0.27	121	2,060
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.11	0.07	1.41	0.95	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	270	270	0.03	0.04	0.15	284
Area	0.02	0.02	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.05	0.05	< 0.005	< 0.005	—	0.05
Energy	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	27.2	27.2	< 0.005	< 0.005	—	27.4
Water	—	—	—	—	—	—	—	—	—	—	—	0.34	1.48	1.82	0.04	< 0.005	—	2.96
Waste	—	—	—	—	—	—	—	—	—	—	—	2.07	0.00	2.07	0.21	0.00	—	7.24
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	19.9	19.9
Total	0.13	0.08	1.42	0.97	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	2.41	299	301	0.28	0.04	20.0	341

3. Construction Emissions Details

3.1. Site Preparation (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	3.94	3.31	31.6	30.2	0.05	1.37	—	1.37	1.26	—	1.26	—	5,295	5,295	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	0.43	0.41	< 0.005	0.02	—	0.02	0.02	—	0.02	—	72.5	72.5	< 0.005	< 0.005	—	72.8
Dust From Material Movement	—	—	—	—	—	—	0.27	0.27	—	0.14	0.14	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.0	12.0	< 0.005	< 0.005	—	12.1
Dust From Material Movement	—	—	—	—	—	—	0.05	0.05	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.02	7.02	< 0.005	< 0.005	< 0.005	7.36
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.10	0.10	< 0.005	< 0.005	< 0.005	0.10
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Grading (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.07	1.74	16.3	17.9	0.03	0.72	—	0.72	0.66	—	0.66	—	2,959	2,959	0.12	0.02	—	2,970

Dust From Material Movement	—	—	—	—	—	—	7.11	7.11	—	3.43	3.43	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.36	0.39	< 0.005	0.02	—	0.02	0.01	—	0.01	—	64.9	64.9	< 0.005	< 0.005	—	65.1
Dust From Material Movement	—	—	—	—	—	—	0.16	0.16	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.7	10.7	< 0.005	< 0.005	—	10.8
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.02	7.02	< 0.005	< 0.005	< 0.005	7.36
Hauling	0.08	0.05	1.17	0.78	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	187	187	0.03	0.03	< 0.005	197
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.15	0.15	< 0.005	< 0.005	< 0.005	0.16
Hauling	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.06	4.06	< 0.005	< 0.005	< 0.005	4.28
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.03	0.03	< 0.005	< 0.005	< 0.005	0.03
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.67	0.67	< 0.005	< 0.005	< 0.005	0.71

3.5. Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.35	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.04	0.03	0.29	0.36	< 0.005	0.01	—	0.01	0.01	—	0.01	—	65.7	65.7	< 0.005	< 0.005	—	65.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.9	10.9	< 0.005	< 0.005	—	10.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.02	0.01	0.30	0.19	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	49.2	49.2	0.01	0.01	< 0.005	51.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.34	1.34	< 0.005	< 0.005	< 0.005	1.40
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.22	0.22	< 0.005	< 0.005	< 0.005	0.23
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.77	0.65	5.94	7.82	0.01	0.23	—	0.23	0.21	—	0.21	—	1,445	1,445	0.06	0.01	—	1,450
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	1.08	1.43	< 0.005	0.04	—	0.04	0.04	—	0.04	—	239	239	0.01	< 0.005	—	240

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.02	0.01	0.29	0.18	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	47.8	47.8	0.01	0.01	0.06	50.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.02	0.01	0.30	0.19	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	48.5	48.5	0.01	0.01	< 0.005	50.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	0.01	0.18	0.11	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	29.0	29.0	< 0.005	< 0.005	0.01	30.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.80	4.80	< 0.005	< 0.005	< 0.005	5.04
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Paving (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.81	0.68	6.23	8.81	0.01	0.26	—	0.26	0.24	—	0.24	—	1,350	1,350	0.05	0.01	—	1,355
Paving	0.52	0.52	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.31	0.43	< 0.005	0.01	—	0.01	0.01	—	0.01	—	66.6	66.6	< 0.005	< 0.005	—	66.8
Paving	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.0	11.0	< 0.005	< 0.005	—	11.1
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.92	6.92	< 0.005	< 0.005	< 0.005	7.26
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.34	0.34	< 0.005	< 0.005	< 0.005	0.36
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.06	0.06	< 0.005	< 0.005	< 0.005	0.06
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Architectural Coating (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	0.86	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134

Architectural Coating	3.75	3.75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.04	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.58	6.58	< 0.005	< 0.005	—	6.61
Architectural Coatings	0.18	0.18	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.09	1.09	< 0.005	< 0.005	—	1.09
Architectural Coatings	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.92	6.92	< 0.005	< 0.005	< 0.005	7.26

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.34	0.34	< 0.005	< 0.005	< 0.005	0.36
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.06	0.06	< 0.005	< 0.005	< 0.005	0.06
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Convenience Market with Gas Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Gasolin Station	0.61	0.38	7.49	5.11	0.01	0.02	0.27	0.29	0.02	0.07	0.09	—	1,623	1,623	0.20	0.26	2.09	1,707
Fast Food Restaurant with Drive Thru	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.61	0.38	7.49	5.11	0.01	0.02	0.27	0.29	0.02	0.07	0.09	—	1,623	1,623	0.20	0.26	2.09	1,707
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Convenience Market with Gas Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Gasoline/Service Station	0.56	0.34	7.91	5.29	0.01	0.02	0.27	0.29	0.02	0.07	0.09	—	1,640	1,640	0.20	0.26	0.05	1,723
Fast Food Restaurant with Drive Thru	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.56	0.34	7.91	5.29	0.01	0.02	0.27	0.29	0.02	0.07	0.09	—	1,640	1,640	0.20	0.26	0.05	1,723
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Convenience Market with Gas Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Gasoline/Service Station	0.11	0.07	1.41	0.95	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	270	270	0.03	0.04	0.15	284
Fast Food Restaurant with Drive Thru	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.11	0.07	1.41	0.95	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	270	270	0.03	0.04	0.15	284

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	14.0	14.0	< 0.005	< 0.005	—	14.1

Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	—	17.2	17.2	< 0.005	< 0.005	—	17.3
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	2.56	2.56	< 0.005	< 0.005	—	2.57
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	59.0	59.0	0.01	< 0.005	—	59.4
Total	—	—	—	—	—	—	—	—	—	—	—	—	92.8	92.8	0.01	< 0.005	—	93.3
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	14.0	14.0	< 0.005	< 0.005	—	14.1
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	—	17.2	17.2	< 0.005	< 0.005	—	17.3
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	2.56	2.56	< 0.005	< 0.005	—	2.57
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	59.0	59.0	0.01	< 0.005	—	59.4

Total	—	—	—	—	—	—	—	—	—	—	—	—	92.8	92.8	0.01	< 0.005	—	93.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	2.32	2.32	< 0.005	< 0.005	—	2.33
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	—	2.85	2.85	< 0.005	< 0.005	—	2.86
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	0.42	0.42	< 0.005	< 0.005	—	0.43
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	9.77	9.77	< 0.005	< 0.005	—	9.83
Total	—	—	—	—	—	—	—	—	—	—	—	—	15.4	15.4	< 0.005	< 0.005	—	15.4

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Convenience Market with Gas Pumps	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.04	3.04	< 0.005	< 0.005	—	3.05
Gasoline/Service Station	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.88	3.88	< 0.005	< 0.005	—	3.89
Fast Food Restaurant with Drive Thru	0.01	< 0.005	0.05	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	64.8	64.8	0.01	< 0.005	—	65.0
Total	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	71.7	71.7	0.01	< 0.005	—	71.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Convenience Market with Gas Pumps	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.04	3.04	< 0.005	< 0.005	—	3.05
Gasoline/Service Station	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.88	3.88	< 0.005	< 0.005	—	3.89
Fast Food Restaurant with Drive Thru	0.01	< 0.005	0.05	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	64.8	64.8	0.01	< 0.005	—	65.0
Total	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	71.7	71.7	0.01	< 0.005	—	71.9

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Convenience Market with Gas Pumps	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.50	0.50	< 0.005	< 0.005	—	0.50
Gasoline/Service Station	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.64	0.64	< 0.005	< 0.005	—	0.64
Fast Food Restaurant with Drive Thru	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.7	10.7	< 0.005	< 0.005	—	10.8
Total	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.9	11.9	< 0.005	< 0.005	—	11.9

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.02	0.02	< 0.005	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.47	0.47	< 0.005	< 0.005	—	0.47
Total	0.11	0.11	< 0.005	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.47	0.47	< 0.005	< 0.005	—	0.47
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.09	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.05	0.05	< 0.005	< 0.005	—	0.05
Total	0.02	0.02	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.05	0.05	< 0.005	< 0.005	—	0.05

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	1.00	5.27	6.27	0.10	< 0.005	—	9.59
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.05	0.17	0.22	0.01	< 0.005	—	0.39
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	1.03	3.47	4.50	0.11	< 0.005	—	7.91
Total	—	—	—	—	—	—	—	—	—	—	—	2.08	8.92	11.0	0.21	0.01	—	17.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	1.00	5.27	6.27	0.10	< 0.005	—	9.59
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.05	0.17	0.22	0.01	< 0.005	—	0.39
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	1.03	3.47	4.50	0.11	< 0.005	—	7.91
Total	—	—	—	—	—	—	—	—	—	—	—	2.08	8.92	11.0	0.21	0.01	—	17.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	0.17	0.87	1.04	0.02	< 0.005	—	1.59
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.01	0.03	0.04	< 0.005	< 0.005	—	0.06
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.17	0.57	0.75	0.02	< 0.005	—	1.31
Total	—	—	—	—	—	—	—	—	—	—	—	0.34	1.48	1.82	0.04	< 0.005	—	2.96

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	0.91	0.00	0.91	0.09	0.00	—	3.20
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.58	0.00	0.58	0.06	0.00	—	2.03
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	11.0	0.00	11.0	1.10	0.00	—	38.5
Total	—	—	—	—	—	—	—	—	—	—	—	12.5	0.00	12.5	1.25	0.00	—	43.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	0.91	0.00	0.91	0.09	0.00	—	3.20
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.58	0.00	0.58	0.06	0.00	—	2.03
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	11.0	0.00	11.0	1.10	0.00	—	38.5
Total	—	—	—	—	—	—	—	—	—	—	—	12.5	0.00	12.5	1.25	0.00	—	43.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	0.15	0.00	0.15	0.02	0.00	—	0.53
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.10	0.00	0.10	0.01	0.00	—	0.34
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	1.82	0.00	1.82	0.18	0.00	—	6.37

Total	—	—	—	—	—	—	—	—	—	—	—	2.07	0.00	2.07	0.21	0.00	—	7.24

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	117	117
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.77	2.77
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	120	120
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	117	117
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.77	2.77

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	120	120
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	19.4	19.4
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.46	0.46
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	19.9	19.9

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	12/1/2025	12/5/2025	5.00	5.00	—
Grading	Grading	12/6/2025	12/17/2025	5.00	8.00	—
Building Construction	Building Construction	12/18/2025	11/4/2026	5.00	230	—
Paving	Paving	11/5/2026	11/30/2026	5.00	18.0	—
Architectural Coating	Architectural Coating	12/1/2026	12/24/2026	5.00	18.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41

Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Cement and Mortar Mixers	Diesel	Average	2.00	6.00	10.0	0.56
Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	6.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	6.00	36.0	0.38
Paving	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	0.00	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	4.00	0.25	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	0.00	18.5	LDA,LDT1,LDT2
Grading	Vendor	4.00	0.25	HHDT,MHDT

Grading	Hauling	76.0	0.25	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	0.00	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	28.0	0.25	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	0.00	18.5	LDA,LDT1,LDT2
Paving	Vendor	4.00	0.25	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	0.00	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	4.00	0.25	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	3,929	1,310	9,323

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	—	—	7.50	0.00	—
Grading	—	4,816	8.00	0.00	—
Paving	0.00	0.00	0.00	0.00	3.57

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Other Asphalt Surfaces	3.18	100%
Parking Lot	0.39	100%
Convenience Market with Gas Pumps	0.00	0%
Gasoline/Service Station	0.00	0%
Fast Food Restaurant with Drive Thru	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2025	0.00	532	0.03	< 0.005
2026	0.00	532	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Convenience Market with Gas Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gasoline/Service Station	619	619	619	226,009	311	311	311	113,683
Fast Food Restaurant with Drive Thru	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	3,929	1,310	9,323

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00
Parking Lot	14,767	346	0.0330	0.0040	0.00
Convenience Market with Gas Pumps	18,125	346	0.0330	0.0040	9,483
Gasoline/Service Station	2,698	346	0.0330	0.0040	12,112
Fast Food Restaurant with Drive Thru	62,224	346	0.0330	0.0040	202,112

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Other Asphalt Surfaces	0.00	0.00
Parking Lot	0.00	0.00
Convenience Market with Gas Pumps	521,026	379,342
Gasoline/Service Station	26,564	0.00
Fast Food Restaurant with Drive Thru	537,862	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Other Asphalt Surfaces	0.00	—
Parking Lot	0.00	—
Convenience Market with Gas Pumps	1.69	—
Gasoline/Service Station	1.08	—
Fast Food Restaurant with Drive Thru	20.4	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Convenience Market with Gas Pumps	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Convenience Market with Gas Pumps	Supermarket refrigeration and condensing units	R-404A	3,922	26.5	16.5	16.5	18.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm

Sea Level Rise	—	meters of inundation depth
Wildfire	21.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A

Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	100
AQ-PM	46.7
AQ-DPM	62.3
Drinking Water	49.6
Lead Risk Housing	31.0
Pesticides	2.00
Toxic Releases	42.8
Traffic	61.1
Effect Indicators	—

CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	65.9
Impaired Water Bodies	0.00
Solid Waste	0.00
Sensitive Population	—
Asthma	29.1
Cardio-vascular	59.6
Low Birth Weights	33.7
Socioeconomic Factor Indicators	—
Education	53.1
Housing	28.2
Linguistic	5.64
Poverty	44.1
Unemployment	65.6

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	49.39047863
Employed	7.955857821
Median HI	28.39727961
Education	—
Bachelor's or higher	26.08751444
High school enrollment	100
Preschool enrollment	1.873476197
Transportation	—

Auto Access	49.51879892
Active commuting	1.039394328
Social	—
2-parent households	69.19029899
Voting	52.71397408
Neighborhood	—
Alcohol availability	64.81457718
Park access	7.108943924
Retail density	18.0803285
Supermarket access	33.60708328
Tree canopy	28.66675221
Housing	—
Homeownership	88.78480688
Housing habitability	65.43051456
Low-inc homeowner severe housing cost burden	14.98780957
Low-inc renter severe housing cost burden	43.75721802
Uncrowded housing	68.66418581
Health Outcomes	—
Insured adults	54.27948159
Arthritis	0.0
Asthma ER Admissions	71.8
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	6.1

Cognitively Disabled	17.4
Physically Disabled	20.3
Heart Attack ER Admissions	14.8
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	45.8
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	16.1
SLR Inundation Area	0.0
Children	90.2
Elderly	16.2
English Speaking	59.2
Foreign-born	10.6
Outdoor Workers	12.6
Climate Change Adaptive Capacity	—
Impervious Surface Cover	86.4
Traffic Density	61.9
Traffic Access	23.0
Other Indices	—
Hardship	60.4
Other Decision Support	—

2016 Voting	74.2

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	35.0
Healthy Places Index Score for Project Location (b)	26.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	No demolition.
Construction: Trips and VMT	Based on applicant provided information.
Operations: Water and Waste Water	Based on landscaping plan.
Operations: Vehicle Data	Based on traffic impact analysis. Trip length based on AERMOD sources.
Operations: Fleet Mix	EMFAC fleet mix for diesel vehicles fueled in Riverside County.

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** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 12/18/2024
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** AERMOD Control Pathway
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CO FINISHED
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**************************************
** AERMOD Source Pathway
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SO STARTING
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** Source ID - Type - X Coord. - Y Coord. **
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SRCPARAM L0000039     0.0089285714      5.00      4.65      4.65
SRCPARAM L0000040     0.0089285714      5.00      4.65      4.65
SRCPARAM L0000041     0.0089285714      5.00      4.65      4.65
SRCPARAM L0000042     0.0089285714      5.00      4.65      4.65
SRCPARAM L0000043     0.0089285714      5.00      4.65      4.65
SRCPARAM L0000044     0.0089285714      5.00      4.65      4.65
SRCPARAM L0000045     0.0089285714      5.00      4.65      4.65
SRCPARAM L0000046     0.0089285714      5.00      4.65      4.65
SRCPARAM L0000047     0.0089285714      5.00      4.65      4.65
SRCPARAM L0000048     0.0089285714      5.00      4.65      4.65
SRCPARAM L0000049     0.0089285714      5.00      4.65      4.65
SRCPARAM L0000050     0.0089285714      5.00      4.65      4.65
SRCPARAM L0000051     0.0089285714      5.00      4.65      4.65
SRCPARAM L0000052     0.0089285714      5.00      4.65      4.65
SRCPARAM L0000053     0.0089285714      5.00      4.65      4.65
SRCPARAM L0000054     0.0089285714      5.00      4.65      4.65
SRCPARAM L0000055     0.0089285714      5.00      4.65      4.65
SRCPARAM L0000056     0.0089285714      5.00      4.65      4.65
SRCPARAM L0000057     0.0089285714      5.00      4.65      4.65
SRCPARAM L0000058     0.0089285714      5.00      4.65      4.65
SRCPARAM L0000059     0.0089285714      5.00      4.65      4.65
SRCPARAM L0000060     0.0089285714      5.00      4.65      4.65
SRCPARAM L0000061     0.0089285714      5.00      4.65      4.65
SRCPARAM L0000062     0.0089285714      5.00      4.65      4.65
SRCPARAM L0000063     0.0089285714      5.00      4.65      4.65
SRCPARAM L0000064     0.0089285714      5.00      4.65      4.65
SRCPARAM L0000065     0.0089285714      5.00      4.65      4.65
SRCPARAM L0000066     0.0089285714      5.00      4.65      4.65
SRCPARAM L0000067     0.0089285714      5.00      4.65      4.65
SRCPARAM L0000068     0.0089285714      5.00      4.65      4.65
SRCPARAM L0000069     0.0089285714      5.00      4.65      4.65
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   SRCPARAM L0000070     0.0089285714      5.00      4.65      4.65
   SRCPARAM L0000071     0.0089285714      5.00      4.65      4.65
   SRCPARAM L0000072     0.0089285714      5.00      4.65      4.65
   SRCPARAM L0000073     0.0089285714      5.00      4.65      4.65
   SRCPARAM L0000074     0.0089285714      5.00      4.65      4.65
   SRCPARAM L0000075     0.0089285714      5.00      4.65      4.65
   SRCPARAM L0000076     0.0089285714      5.00      4.65      4.65
   SRCPARAM L0000077     0.0089285714      5.00      4.65      4.65
   SRCPARAM L0000078     0.0089285714      5.00      4.65      4.65
   SRCPARAM L0000079     0.0089285714      5.00      4.65      4.65
   SRCPARAM L0000080     0.0089285714      5.00      4.65      4.65
   SRCPARAM L0000081     0.0089285714      5.00      4.65      4.65
   SRCPARAM L0000082     0.0089285714      5.00      4.65      4.65
   SRCPARAM L0000083     0.0089285714      5.00      4.65      4.65
   SRCPARAM L0000084     0.0089285714      5.00      4.65      4.65
   SRCPARAM L0000085     0.0089285714      5.00      4.65      4.65
   SRCPARAM L0000086     0.0089285714      5.00      4.65      4.65
   SRCPARAM L0000087     0.0089285714      5.00      4.65      4.65
   SRCPARAM L0000088     0.0089285714      5.00      4.65      4.65
   SRCPARAM L0000089     0.0089285714      5.00      4.65      4.65
   SRCPARAM L0000090     0.0089285714      5.00      4.65      4.65
   SRCPARAM L0000091     0.0089285714      5.00      4.65      4.65
   SRCPARAM L0000092     0.0089285714      5.00      4.65      4.65
   SRCPARAM L0000093     0.0089285714      5.00      4.65      4.65
   SRCPARAM L0000094     0.0089285714      5.00      4.65      4.65
   SRCPARAM L0000095     0.0089285714      5.00      4.65      4.65
   SRCPARAM L0000096     0.0089285714      5.00      4.65      4.65
   SRCPARAM L0000097     0.0089285714      5.00      4.65      4.65
   SRCPARAM L0000098     0.0089285714      5.00      4.65      4.65
   SRCPARAM L0000099     0.0089285714      5.00      4.65      4.65
   SRCPARAM L0000100     0.0089285714      5.00      4.65      4.65
   SRCPARAM L0000101     0.0089285714      5.00      4.65      4.65
   SRCPARAM L0000102     0.0089285714      5.00      4.65      4.65
   SRCPARAM L0000103     0.0089285714      5.00      4.65      4.65
   SRCPARAM L0000104     0.0089285714      5.00      4.65      4.65
   SRCPARAM L0000105     0.0089285714      5.00      4.65      4.65
   SRCPARAM L0000106     0.0089285714      5.00      4.65      4.65
   SRCPARAM L0000107     0.0089285714      5.00      4.65      4.65
   SRCPARAM L0000108     0.0089285714      5.00      4.65      4.65
   SRCPARAM L0000109     0.0089285714      5.00      4.65      4.65
   SRCPARAM L0000110     0.0089285714      5.00      4.65      4.65
   SRCPARAM L0000111     0.0089285714      5.00      4.65      4.65
   SRCPARAM L0000112     0.0089285714      5.00      4.65      4.65
** ------------------------------------------------------------------
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
```

```
**************************************
**
**
RE STARTING
   INCLUDED "Sandalwood Construction.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE ..\rdld_sfc_pfl\RDLD_V11_trimmed.sfc
   PROFFILE ..\rdld_sfc_pfl\RDLD_V11_trimmed.PFL
   SURFDATA 3102 2018
   UAIRDATA 3190 2018
   SITEDATA 60714003 2018
   PROFBASE 475.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "Sandalwood Construction.AD\01H1GALL.PLT" 31
   PLOTFILE PERIOD ALL "Sandalwood Construction.AD\PE00GALL.PLT" 32
   SUMMFILE "Sandalwood Construction.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
```

```
 ME W186     318       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
 ME W187     318       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


 **********************************
 *** SETUP Finishes Successfully ***
 **********************************

 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:23:50

                                  PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                            ***     MODEL SETUP OPTIONS SUMMARY
 ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 ** Model Options Selected:
      * Model Uses Regulatory DEFAULT Options
      * Model Is Setup For Calculation of Average CONCentration Values.
      * NO GAS DEPOSITION Data Provided.
      * NO PARTICLE DEPOSITION Data Provided.
      * Model Uses NO DRY DEPLETION. DDPLETE  =  F
      * Model Uses NO WET DEPLETION. WETDPLT  =  F
      * Stack-tip Downwash.
      * Model Accounts for ELEVated Terrain Effects.
      * Use Calms Processing Routine.
      * Use Missing Data Processing Routine.
      * No Exponential Decay.
      * Model Uses URBAN Dispersion Algorithm for the SBL for   112 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   2492442.0 ;  Urban Roughness Length =  1.000 m
      * Urban Roughness Length of 1.0 Meter Used.
      * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
      * CCVR_Sub - Meteorological data includes CCVR substitutions
      * TEMP_Sub - Meteorological data includes TEMP substitutions
      * Model Assumes No FLAGPOLE Receptor Heights.
      * The User Specified a Pollutant Type of: PM_10

 **Model Calculates  1 Short Term Average(s) of:   1-HR
     and Calculates PERIOD Averages

 **This Run Includes:    112 Source(s);       1 Source Group(s); and    1179
Receptor(s)
```

```
                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:    112 VOLUME source(s)
                 and:      0 AREA type source(s)
                 and:      0 LINE source(s)
                 and:      0 RLINE/RLINEXT source(s)
                 and:      0 OPENPIT source(s)
                 and:      0 BUOYANT LINE source(s) with a total of     0 line(s)
                 and:      0 SWPOINT source(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  22112

 **Output Options Selected:
          Model Outputs Tables of PERIOD Averages by Receptor
          Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE
Keyword)
          Model Outputs External File(s) of High Values for Plotting (PLOTFILE
Keyword)
          Model Outputs Separate Summary File of High Ranked Values (SUMMFILE
Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                 m for Missing Hours
                                                                 b for Both Calm and
Missing Hours

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   475.00 ;  Decay
Coef. =    0.000     ;  Rot. Angle =     0.0
                  Emission Units = GRAMS/SEC                                ;
Emission Rate Unit Factor =   0.10000E+07
                  Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      3.7 MB of RAM.

 **Input Runstream File:          aermod.inp

 **Output Print File:             aermod.out


 **Detailed Error/Message File:   Sandalwood Construction.err

 **File for Summary of Results:   Sandalwood Construction.sum

 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:23:50
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY	AIRCRAFT
L0000001	0	0.89286E-02	494378.8	3761596.2	728.2	5.00	4.65	4.65	YES	NO	
L0000002	0	0.89286E-02	494379.7	3761586.2	728.1	5.00	4.65	4.65	YES	NO	
L0000003	0	0.89286E-02	494380.7	3761576.3	728.2	5.00	4.65	4.65	YES	NO	
L0000004	0	0.89286E-02	494381.6	3761566.3	728.3	5.00	4.65	4.65	YES	NO	
L0000005	0	0.89286E-02	494382.5	3761556.4	728.4	5.00	4.65	4.65	YES	NO	
L0000006	0	0.89286E-02	494383.4	3761546.4	728.4	5.00	4.65	4.65	YES	NO	
L0000007	0	0.89286E-02	494384.4	3761536.5	728.4	5.00	4.65	4.65	YES	NO	
L0000008	0	0.89286E-02	494385.3	3761526.5	728.4	5.00	4.65	4.65	YES	NO	
L0000009	0	0.89286E-02	494386.2	3761516.5	728.4	5.00	4.65	4.65	YES	NO	
L0000010	0	0.89286E-02	494387.4	3761506.6	728.4	5.00	4.65	4.65	YES	NO	
L0000011	0	0.89286E-02	494389.0	3761496.7	728.4	5.00	4.65	4.65	YES	NO	
L0000012	0	0.89286E-02	494390.5	3761486.9	728.4	5.00	4.65	4.65	YES	NO	
L0000013	0	0.89286E-02	494392.1	3761477.0	728.4	5.00	4.65	4.65	YES	NO	
L0000014	0	0.89286E-02	494393.7	3761467.1	728.4	5.00	4.65	4.65	YES	NO	
L0000015	0	0.89286E-02	494395.3	3761457.2	728.4	5.00	4.65	4.65	YES	NO	
L0000016	0	0.89286E-02	494396.8	3761447.4	728.4	5.00	4.65	4.65	YES	NO	
L0000017	0	0.89286E-02	494398.4	3761437.5	728.4	5.00	4.65	4.65	YES	NO	

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 L0000018         0   0.89286E-02  494406.6 3761437.5   728.6     5.00     4.65
4.65     YES                    NO
 L0000019         0   0.89286E-02  494416.3 3761439.8   728.7     5.00     4.65
4.65     YES                    NO
 L0000020         0   0.89286E-02  494426.0 3761442.1   728.8     5.00     4.65
4.65     YES                    NO
 L0000021         0   0.89286E-02  494435.8 3761444.4   729.0     5.00     4.65
4.65     YES                    NO
 L0000022         0   0.89286E-02  494445.5 3761446.7   729.1     5.00     4.65
4.65     YES                    NO
 L0000023         0   0.89286E-02  494455.2 3761449.0   729.3     5.00     4.65
4.65     YES                    NO
 L0000024         0   0.89286E-02  494465.0 3761451.3   729.4     5.00     4.65
4.65     YES                    NO
 L0000025         0   0.89286E-02  494464.5 3761459.6   729.4     5.00     4.65
4.65     YES                    NO
 L0000026         0   0.89286E-02  494461.7 3761469.2   729.4     5.00     4.65
4.65     YES                    NO
 L0000027         0   0.89286E-02  494459.0 3761478.9   729.4     5.00     4.65
4.65     YES                    NO
 L0000028         0   0.89286E-02  494456.2 3761488.5   729.4     5.00     4.65
4.65     YES                    NO
 L0000029         0   0.89286E-02  494453.5 3761498.1   729.5     5.00     4.65
4.65     YES                    NO
 L0000030         0   0.89286E-02  494450.7 3761507.7   729.5     5.00     4.65
4.65     YES                    NO
 L0000031         0   0.89286E-02  494448.0 3761517.3   729.5     5.00     4.65
4.65     YES                    NO
 L0000032         0   0.89286E-02  494445.2 3761526.9   729.6     5.00     4.65
4.65     YES                    NO
 L0000033         0   0.89286E-02  494442.4 3761536.5   729.5     5.00     4.65
4.65     YES                    NO
 L0000034         0   0.89286E-02  494439.7 3761546.1   729.5     5.00     4.65
4.65     YES                    NO
 L0000035         0   0.89286E-02  494436.9 3761555.8   729.5     5.00     4.65
4.65     YES                    NO
 L0000036         0   0.89286E-02  494434.2 3761565.4   729.4     5.00     4.65
4.65     YES                    NO
 L0000037         0   0.89286E-02  494430.3 3761574.4   729.3     5.00     4.65
4.65     YES                    NO
 L0000038         0   0.89286E-02  494424.4 3761582.5   729.1     5.00     4.65
4.65     YES                    NO
 L0000039         0   0.89286E-02  494418.4 3761590.5   728.8     5.00     4.65
4.65     YES                    NO
 L0000040         0   0.89286E-02  494412.4 3761598.5   728.7     5.00     4.65
4.65     YES                    NO
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:23:50
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY	AIRCRAFT
L0000041	0	0.89286E-02	494406.4	3761606.5	728.5	5.00	4.65	4.65	YES	NO	
L0000042	0	0.89286E-02	494397.1	3761605.6	728.3	5.00	4.65	4.65	YES	NO	
L0000043	0	0.89286E-02	494389.8	3761601.7	728.3	5.00	4.65	4.65	YES	NO	
L0000044	0	0.89286E-02	494391.0	3761591.8	728.2	5.00	4.65	4.65	YES	NO	
L0000045	0	0.89286E-02	494392.2	3761581.9	728.3	5.00	4.65	4.65	YES	NO	
L0000046	0	0.89286E-02	494393.3	3761571.9	728.4	5.00	4.65	4.65	YES	NO	
L0000047	0	0.89286E-02	494394.5	3761562.0	728.6	5.00	4.65	4.65	YES	NO	
L0000048	0	0.89286E-02	494395.7	3761552.1	728.7	5.00	4.65	4.65	YES	NO	
L0000049	0	0.89286E-02	494396.8	3761542.1	728.7	5.00	4.65	4.65	YES	NO	
L0000050	0	0.89286E-02	494398.0	3761532.2	728.7	5.00	4.65	4.65	YES	NO	
L0000051	0	0.89286E-02	494399.1	3761522.3	728.7	5.00	4.65	4.65	YES	NO	
L0000052	0	0.89286E-02	494400.3	3761512.3	728.7	5.00	4.65	4.65	YES	NO	
L0000053	0	0.89286E-02	494401.5	3761502.4	728.7	5.00	4.65	4.65	YES	NO	
L0000054	0	0.89286E-02	494402.7	3761492.5	728.7	5.00	4.65	4.65	YES	NO	
L0000055	0	0.89286E-02	494403.9	3761482.5	728.7	5.00	4.65	4.65	YES	NO	
L0000056	0	0.89286E-02	494405.1	3761472.6	728.6	5.00	4.65	4.65	YES	NO	
L0000057	0	0.89286E-02	494406.2	3761462.7	728.6	5.00	4.65	4.65	YES	NO	

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 L0000058         0   0.89286E-02  494407.4 3761452.8   728.6     5.00     4.65
4.65     YES                    NO
 L0000059         0   0.89286E-02  494414.4 3761451.4   728.7     5.00     4.65
4.65     YES                    NO
 L0000060         0   0.89286E-02  494424.1 3761454.1   728.9     5.00     4.65
4.65     YES                    NO
 L0000061         0   0.89286E-02  494433.8 3761456.7   729.0     5.00     4.65
4.65     YES                    NO
 L0000062         0   0.89286E-02  494443.4 3761459.3   729.1     5.00     4.65
4.65     YES                    NO
 L0000063         0   0.89286E-02  494451.7 3761462.6   729.3     5.00     4.65
4.65     YES                    NO
 L0000064         0   0.89286E-02  494449.1 3761472.3   729.3     5.00     4.65
4.65     YES                    NO
 L0000065         0   0.89286E-02  494446.5 3761482.0   729.3     5.00     4.65
4.65     YES                    NO
 L0000066         0   0.89286E-02  494443.9 3761491.6   729.4     5.00     4.65
4.65     YES                    NO
 L0000067         0   0.89286E-02  494441.3 3761501.3   729.4     5.00     4.65
4.65     YES                    NO
 L0000068         0   0.89286E-02  494438.8 3761510.9   729.4     5.00     4.65
4.65     YES                    NO
 L0000069         0   0.89286E-02  494436.2 3761520.6   729.4     5.00     4.65
4.65     YES                    NO
 L0000070         0   0.89286E-02  494433.6 3761530.3   729.4     5.00     4.65
4.65     YES                    NO
 L0000071         0   0.89286E-02  494431.0 3761539.9   729.4     5.00     4.65
4.65     YES                    NO
 L0000072         0   0.89286E-02  494428.4 3761549.6   729.3     5.00     4.65
4.65     YES                    NO
 L0000073         0   0.89286E-02  494425.8 3761559.2   729.3     5.00     4.65
4.65     YES                    NO
 L0000074         0   0.89286E-02  494422.3 3761568.5   729.1     5.00     4.65
4.65     YES                    NO
 L0000075         0   0.89286E-02  494416.7 3761576.8   728.9     5.00     4.65
4.65     YES                    NO
 L0000076         0   0.89286E-02  494411.2 3761585.1   728.7     5.00     4.65
4.65     YES                    NO
 L0000077         0   0.89286E-02  494405.6 3761593.4   728.5     5.00     4.65
4.65     YES                    NO
 L0000078         0   0.89286E-02  494401.0 3761599.0   728.4     5.00     4.65
4.65     YES                    NO
 L0000079         0   0.89286E-02  494402.1 3761589.1   728.4     5.00     4.65
4.65     YES                    NO
 L0000080         0   0.89286E-02  494403.2 3761579.2   728.6     5.00     4.65
4.65     YES                    NO
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                       ***       11:23:50
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY	AIRCRAFT
L0000081	0	0.89286E-02	494404.3	3761569.2	728.7	5.00	4.65	4.65	YES	NO	
L0000082	0	0.89286E-02	494405.3	3761559.3	728.9	5.00	4.65	4.65	YES	NO	
L0000083	0	0.89286E-02	494406.4	3761549.3	728.9	5.00	4.65	4.65	YES	NO	
L0000084	0	0.89286E-02	494407.5	3761539.4	728.9	5.00	4.65	4.65	YES	NO	
L0000085	0	0.89286E-02	494408.5	3761529.5	729.0	5.00	4.65	4.65	YES	NO	
L0000086	0	0.89286E-02	494409.6	3761519.5	729.0	5.00	4.65	4.65	YES	NO	
L0000087	0	0.89286E-02	494410.6	3761509.6	729.0	5.00	4.65	4.65	YES	NO	
L0000088	0	0.89286E-02	494411.7	3761499.6	729.0	5.00	4.65	4.65	YES	NO	
L0000089	0	0.89286E-02	494412.7	3761489.7	728.9	5.00	4.65	4.65	YES	NO	
L0000090	0	0.89286E-02	494413.8	3761479.7	728.9	5.00	4.65	4.65	YES	NO	
L0000091	0	0.89286E-02	494414.8	3761469.8	728.8	5.00	4.65	4.65	YES	NO	
L0000092	0	0.89286E-02	494418.6	3761463.7	728.8	5.00	4.65	4.65	YES	NO	
L0000093	0	0.89286E-02	494428.3	3761465.9	729.0	5.00	4.65	4.65	YES	NO	
L0000094	0	0.89286E-02	494438.1	3761468.1	729.1	5.00	4.65	4.65	YES	NO	
L0000095	0	0.89286E-02	494438.0	3761476.3	729.2	5.00	4.65	4.65	YES	NO	
L0000096	0	0.89286E-02	494435.3	3761485.9	729.2	5.00	4.65	4.65	YES	NO	
L0000097	0	0.89286E-02	494432.6	3761495.6	729.3	5.00	4.65	4.65	YES	NO	

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 L0000098         0   0.89286E-02  494430.0 3761505.2   729.3     5.00     4.65
4.65     YES                    NO
 L0000099         0   0.89286E-02  494427.3 3761514.8   729.3     5.00     4.65
4.65     YES                    NO
 L0000100         0   0.89286E-02  494424.6 3761524.5   729.3     5.00     4.65
4.65     YES                    NO
 L0000101         0   0.89286E-02  494422.0 3761534.1   729.3     5.00     4.65
4.65     YES                    NO
 L0000102         0   0.89286E-02  494419.3 3761543.8   729.2     5.00     4.65
4.65     YES                    NO
 L0000103         0   0.89286E-02  494416.7 3761553.4   729.2     5.00     4.65
4.65     YES                    NO
 L0000104         0   0.89286E-02  494414.2 3761562.1   729.0     5.00     4.65
4.65     YES                    NO
 L0000105         0   0.89286E-02  494415.4 3761552.2   729.1     5.00     4.65
4.65     YES                    NO
 L0000106         0   0.89286E-02  494416.7 3761542.3   729.2     5.00     4.65
4.65     YES                    NO
 L0000107         0   0.89286E-02  494417.9 3761532.4   729.2     5.00     4.65
4.65     YES                    NO
 L0000108         0   0.89286E-02  494419.2 3761522.5   729.2     5.00     4.65
4.65     YES                    NO
 L0000109         0   0.89286E-02  494420.4 3761512.5   729.2     5.00     4.65
4.65     YES                    NO
 L0000110         0   0.89286E-02  494421.7 3761502.6   729.2     5.00     4.65
4.65     YES                    NO
 L0000111         0   0.89286E-02  494422.9 3761492.7   729.1     5.00     4.65
4.65     YES                    NO
 L0000112         0   0.89286E-02  494424.2 3761482.8   729.1     5.00     4.65
4.65     YES                    NO
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                              *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                              SOURCE IDs
 -----------                                              ----------


  ALL        L0000001    , L0000002    , L0000003    , L0000004    , L0000005    ,
L0000006    , L0000007    , L0000008    ,

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L0000014    , L0000015    , L0000016    ,
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L0000030    , L0000031    , L0000032    ,

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 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** SOURCE IDs DEFINED AS URBAN SOURCES
***

  URBAN ID   URBAN POP                                    SOURCE IDs
  --------   ---------                                    ----------
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L0000014    , L0000015    , L0000016    ,

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L0000022    , L0000023    , L0000024    ,

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             L0000073    , L0000074    , L0000075    , L0000076    , L0000077    ,
L0000078    , L0000079    , L0000080    ,

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L0000094    , L0000095    , L0000096    ,

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L0000102    , L0000103    , L0000104    ,

             L0000105    , L0000106    , L0000107    , L0000108    , L0000109    ,
L0000110    , L0000111    , L0000112    ,
*** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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(493980.4, 3761692.6, 725.0, 725.0, 0.0); (493969.8, 3761686.5, 725.1, 725.1, 0.0);
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(493937.3, 3761717.4, 724.9, 724.9, 0.0); (493921.1, 3761715.4, 725.0, 725.0, 0.0);
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     ( 493941.4, 3761745.8,     724.3,     724.3,       0.0);         ( 493954.1,
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     ( 493712.8, 3761770.6,     714.2,     723.3,       0.0);         ( 493739.7,
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     ( 493801.5, 3761770.1,     718.3,     725.3,       0.0);         ( 493830.9,
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     ( 493850.7, 3761773.7,     720.0,     723.2,       0.0);         ( 493872.5,
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     ( 493893.8, 3761776.7,     722.8,     722.8,       0.0);         ( 493908.5,
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 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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3761376.4,     745.1,     745.1,       0.0);
     ( 495326.0, 3761376.4,     745.8,     745.8,       0.0);         ( 495346.0,
3761376.4,     746.2,     746.2,       0.0);
     ( 495366.0, 3761376.4,     747.0,     747.0,       0.0);         ( 495386.0,
3761376.4,     747.9,     747.9,       0.0);
     ( 495406.0, 3761376.4,     748.7,     748.7,       0.0);         ( 495426.0,
3761376.4,     749.6,     749.6,       0.0);
     ( 495446.0, 3761376.4,     750.9,     750.9,       0.0);         ( 495466.0,
3761376.4,     751.8,     751.8,       0.0);
     ( 495486.0, 3761376.4,     752.0,     752.0,       0.0);         ( 494986.0,
3761396.4,     738.5,     738.5,       0.0);
     ( 495006.0, 3761396.4,     739.3,     739.3,       0.0);         ( 495026.0,
3761396.4,     739.8,     739.8,       0.0);
     ( 495046.0, 3761396.4,     740.2,     740.2,       0.0);         ( 495066.0,
3761396.4,     740.5,     740.5,       0.0);
     ( 495086.0, 3761396.4,     739.8,     739.8,       0.0);         ( 495106.0,
3761396.4,     738.1,     740.2,       0.0);
     ( 495126.0, 3761396.4,     737.8,     737.8,       0.0);         ( 495146.0,
3761396.4,     738.1,     738.1,       0.0);
     ( 495166.0, 3761396.4,     738.3,     738.3,       0.0);         ( 495186.0,
3761396.4,     738.3,     738.3,       0.0);
     ( 495206.0, 3761396.4,     738.6,     738.6,       0.0);         ( 495226.0,
3761396.4,     739.7,     742.0,       0.0);
     ( 495246.0, 3761396.4,     741.5,     741.5,       0.0);         ( 495266.0,
3761396.4,     742.7,     743.5,       0.0);
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(495286.0, 3761396.4, 744.2, 744.2, 0.0); (495306.0, 3761396.4, 745.2, 745.2, 0.0);
(495326.0, 3761396.4, 746.1, 746.1, 0.0); (495346.0, 3761396.4, 746.9, 746.9, 0.0);
(495366.0, 3761396.4, 747.6, 747.6, 0.0); (495386.0, 3761396.4, 748.3, 748.3, 0.0);
(495406.0, 3761396.4, 749.0, 749.0, 0.0); (495426.0, 3761396.4, 749.9, 749.9, 0.0);
(495446.0, 3761396.4, 751.1, 751.1, 0.0); (495466.0, 3761396.4, 751.8, 751.8, 0.0);
(495486.0, 3761396.4, 752.2, 752.2, 0.0); (495506.0, 3761396.4, 751.8, 751.8, 0.0);
(494966.0, 3761416.4, 738.9, 738.9, 0.0); (494986.0, 3761416.4, 739.3, 739.3, 0.0);
(495006.0, 3761416.4, 739.7, 739.7, 0.0); (495026.0, 3761416.4, 740.0, 740.0, 0.0);
(495046.0, 3761416.4, 740.4, 740.4, 0.0); (495066.0, 3761416.4, 740.9, 740.9, 0.0);
(495086.0, 3761416.4, 740.9, 740.9, 0.0); (495106.0, 3761416.4, 739.9, 739.9, 0.0);
(495126.0, 3761416.4, 739.5, 739.5, 0.0); (495146.0, 3761416.4, 739.6, 739.6, 0.0);
(495166.0, 3761416.4, 739.6, 739.6, 0.0); (495186.0, 3761416.4, 739.6, 739.6, 0.0);
(495206.0, 3761416.4, 739.9, 739.9, 0.0); (495226.0, 3761416.4, 741.1, 743.5, 0.0);
(495246.0, 3761416.4, 742.9, 742.9, 0.0); (495266.0, 3761416.4, 743.7, 743.7, 0.0);
(495286.0, 3761416.4, 744.5, 744.5, 0.0); (495306.0, 3761416.4, 745.3, 745.3, 0.0);
(495326.0, 3761416.4, 746.4, 746.4, 0.0); (495346.0, 3761416.4, 747.9, 747.9, 0.0);
(495366.0, 3761416.4, 748.5, 748.5, 0.0); (495386.0, 3761416.4, 749.0, 749.0, 0.0);
(495406.0, 3761416.4, 749.6, 749.6, 0.0); (495426.0, 3761416.4, 750.3, 750.3, 0.0);
(495446.0, 3761416.4, 751.1, 751.1, 0.0); (495466.0, 3761416.4, 751.7, 751.7, 0.0);
(495486.0, 3761416.4, 752.1, 752.1, 0.0); (495506.0, 3761416.4, 752.3, 752.3, 0.0);

```
     ( 495526.0, 3761416.4,     752.0,     752.0,       0.0);         ( 494966.0,
3761436.4,     739.2,     739.2,       0.0);
     ( 494986.0, 3761436.4,     739.7,     739.7,       0.0);         ( 495006.0,
3761436.4,     740.0,     740.0,       0.0);
     ( 495026.0, 3761436.4,     740.2,     740.2,       0.0);         ( 495046.0,
3761436.4,     740.7,     740.7,       0.0);
     ( 495066.0, 3761436.4,     741.2,     741.2,       0.0);         ( 495086.0,
3761436.4,     741.7,     741.7,       0.0);
     ( 495106.0, 3761436.4,     741.6,     741.6,       0.0);         ( 495126.0,
3761436.4,     741.3,     741.3,       0.0);
     ( 495146.0, 3761436.4,     740.9,     740.9,       0.0);         ( 495166.0,
3761436.4,     740.7,     740.7,       0.0);
     ( 495186.0, 3761436.4,     740.8,     740.8,       0.0);         ( 495206.0,
3761436.4,     741.1,     741.1,       0.0);
     ( 495226.0, 3761436.4,     742.3,     742.3,       0.0);         ( 495246.0,
3761436.4,     743.7,     743.7,       0.0);
     ( 495266.0, 3761436.4,     744.1,     744.1,       0.0);         ( 495286.0,
3761436.4,     744.6,     744.6,       0.0);
     ( 495306.0, 3761436.4,     745.4,     745.4,       0.0);         ( 495326.0,
3761436.4,     746.8,     748.8,       0.0);
     ( 495346.0, 3761436.4,     748.9,     748.9,       0.0);         ( 495366.0,
3761436.4,     749.5,     749.5,       0.0);
     ( 495386.0, 3761436.4,     749.8,     749.8,       0.0);         ( 495406.0,
3761436.4,     750.2,     750.2,       0.0);
     ( 495426.0, 3761436.4,     750.7,     750.7,       0.0);         ( 495446.0,
3761436.4,     751.2,     751.2,       0.0);
     ( 495466.0, 3761436.4,     751.7,     751.7,       0.0);         ( 495486.0,
3761436.4,     752.1,     752.1,       0.0);
     ( 495506.0, 3761436.4,     752.5,     752.5,       0.0);         ( 495526.0,
3761436.4,     752.8,     752.8,       0.0);
     ( 494846.0, 3761456.4,     736.9,     736.9,       0.0);         ( 494946.0,
3761456.4,     738.8,     738.8,       0.0);
     ( 494966.0, 3761456.4,     739.6,     739.6,       0.0);         ( 494986.0,
3761456.4,     740.0,     740.0,       0.0);
     ( 495006.0, 3761456.4,     740.2,     740.2,       0.0);         ( 495026.0,
3761456.4,     740.5,     740.5,       0.0);
     ( 495046.0, 3761456.4,     741.0,     741.0,       0.0);         ( 495066.0,
3761456.4,     741.6,     741.6,       0.0);
     ( 495086.0, 3761456.4,     741.9,     741.9,       0.0);         ( 495106.0,
3761456.4,     742.2,     742.2,       0.0);
     ( 495126.0, 3761456.4,     742.3,     742.3,       0.0);         ( 495146.0,
3761456.4,     742.1,     742.1,       0.0);
     ( 495166.0, 3761456.4,     741.9,     741.9,       0.0);         ( 495186.0,
3761456.4,     741.9,     741.9,       0.0);
     ( 495206.0, 3761456.4,     742.2,     742.2,       0.0);         ( 495226.0,
3761456.4,     743.2,     743.2,       0.0);
     ( 495246.0, 3761456.4,     744.5,     744.5,       0.0);         ( 495266.0,
3761456.4,     744.7,     744.7,       0.0);
     ( 495286.0, 3761456.4,     745.1,     745.1,       0.0);         ( 495306.0,
3761456.4,     745.9,     745.9,       0.0);
```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(495326.0, 3761456.4, 747.4, 749.7, 0.0); (495346.0, 3761456.4, 749.5, 749.5, 0.0);
(495366.0, 3761456.4, 749.9, 749.9, 0.0); (495386.0, 3761456.4, 750.1, 750.1, 0.0);
(495406.0, 3761456.4, 750.4, 750.4, 0.0); (495426.0, 3761456.4, 751.0, 751.0, 0.0);
(495446.0, 3761456.4, 751.8, 751.8, 0.0); (495466.0, 3761456.4, 752.0, 752.0, 0.0);
(495486.0, 3761456.4, 752.3, 752.3, 0.0); (495506.0, 3761456.4, 752.7, 752.7, 0.0);
(495526.0, 3761456.4, 753.2, 753.2, 0.0); (494866.0, 3761476.4, 737.6, 737.6, 0.0);
(494886.0, 3761476.4, 738.1, 738.1, 0.0); (494906.0, 3761476.4, 738.5, 738.5, 0.0);
(494926.0, 3761476.4, 738.9, 738.9, 0.0); (494946.0, 3761476.4, 739.3, 739.3, 0.0);
(494966.0, 3761476.4, 739.8, 739.8, 0.0); (494986.0, 3761476.4, 740.3, 740.3, 0.0);
(495006.0, 3761476.4, 740.4, 740.4, 0.0); (495026.0, 3761476.4, 740.8, 740.8, 0.0);
(495046.0, 3761476.4, 741.3, 741.3, 0.0); (495066.0, 3761476.4, 741.9, 741.9, 0.0);
(495086.0, 3761476.4, 742.3, 742.3, 0.0); (495106.0, 3761476.4, 742.6, 742.6, 0.0);
(495126.0, 3761476.4, 742.9, 742.9, 0.0); (495146.0, 3761476.4, 742.9, 742.9, 0.0);
(495166.0, 3761476.4, 742.8, 742.8, 0.0); (495186.0, 3761476.4, 743.1, 743.1, 0.0);
(495206.0, 3761476.4, 743.5, 743.5, 0.0); (495226.0, 3761476.4, 744.3, 744.3, 0.0);
(495246.0, 3761476.4, 745.2, 745.2, 0.0); (495266.0, 3761476.4, 745.3, 745.3, 0.0);
(495286.0, 3761476.4, 745.8, 745.8, 0.0); (495306.0, 3761476.4, 746.5, 746.5, 0.0);
(495326.0, 3761476.4, 747.9, 747.9, 0.0); (495346.0, 3761476.4, 749.7, 749.7, 0.0);
(495366.0, 3761476.4, 749.9, 749.9, 0.0); (495386.0, 3761476.4, 750.1, 750.1, 0.0);

```
     ( 495406.0, 3761476.4,     750.5,     750.5,       0.0);         ( 495426.0,
3761476.4,     751.2,     751.2,       0.0);
     ( 495446.0, 3761476.4,     752.2,     752.2,       0.0);         ( 495466.0,
3761476.4,     752.3,     752.3,       0.0);
     ( 495486.0, 3761476.4,     752.5,     752.5,       0.0);         ( 495506.0,
3761476.4,     752.9,     752.9,       0.0);
     ( 495526.0, 3761476.4,     753.5,     753.5,       0.0);         ( 494866.0,
3761496.4,     737.8,     737.8,       0.0);
     ( 494886.0, 3761496.4,     738.3,     738.3,       0.0);         ( 494906.0,
3761496.4,     738.7,     738.7,       0.0);
     ( 494926.0, 3761496.4,     739.1,     739.1,       0.0);         ( 494946.0,
3761496.4,     739.5,     739.5,       0.0);
     ( 494966.0, 3761496.4,     740.0,     740.0,       0.0);         ( 494986.0,
3761496.4,     740.4,     740.4,       0.0);
     ( 495006.0, 3761496.4,     740.6,     740.6,       0.0);         ( 495026.0,
3761496.4,     741.0,     741.0,       0.0);
     ( 495046.0, 3761496.4,     741.6,     741.6,       0.0);         ( 495066.0,
3761496.4,     742.2,     742.2,       0.0);
     ( 495086.0, 3761496.4,     742.7,     742.7,       0.0);         ( 495106.0,
3761496.4,     742.9,     742.9,       0.0);
     ( 495126.0, 3761496.4,     743.2,     743.2,       0.0);         ( 495146.0,
3761496.4,     743.5,     743.5,       0.0);
     ( 495166.0, 3761496.4,     743.7,     743.7,       0.0);         ( 495186.0,
3761496.4,     744.2,     744.2,       0.0);
     ( 495206.0, 3761496.4,     744.7,     744.7,       0.0);         ( 495226.0,
3761496.4,     745.3,     745.3,       0.0);
     ( 495246.0, 3761496.4,     745.8,     745.8,       0.0);         ( 495266.0,
3761496.4,     746.0,     746.0,       0.0);
     ( 495286.0, 3761496.4,     746.5,     746.5,       0.0);         ( 495306.0,
3761496.4,     747.2,     747.2,       0.0);
     ( 495326.0, 3761496.4,     748.3,     748.3,       0.0);         ( 495346.0,
3761496.4,     749.6,     749.6,       0.0);
     ( 495366.0, 3761496.4,     749.7,     749.7,       0.0);         ( 495386.0,
3761496.4,     749.9,     749.9,       0.0);
     ( 495406.0, 3761496.4,     750.4,     750.4,       0.0);         ( 495426.0,
3761496.4,     751.3,     751.3,       0.0);
     ( 495446.0, 3761496.4,     752.6,     752.6,       0.0);         ( 495466.0,
3761496.4,     752.6,     752.6,       0.0);
     ( 495486.0, 3761496.4,     752.7,     752.7,       0.0);         ( 495506.0,
3761496.4,     753.1,     753.1,       0.0);
     ( 495526.0, 3761496.4,     753.7,     753.7,       0.0);         ( 494866.0,
3761516.4,     738.2,     738.2,       0.0);
     ( 494886.0, 3761516.4,     738.7,     738.7,       0.0);         ( 494906.0,
3761516.4,     738.9,     738.9,       0.0);
     ( 494926.0, 3761516.4,     739.3,     739.3,       0.0);         ( 494946.0,
3761516.4,     739.8,     739.8,       0.0);
     ( 494966.0, 3761516.4,     740.3,     740.3,       0.0);         ( 494986.0,
3761516.4,     740.8,     740.8,       0.0);
     ( 495006.0, 3761516.4,     740.8,     740.8,       0.0);         ( 495026.0,
3761516.4,     741.2,     741.2,       0.0);
```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(495086.0, 3761516.4, 743.0, 743.0, 0.0); (495106.0,
3761516.4, 743.3, 743.3, 0.0);
(495126.0, 3761516.4, 743.6, 743.6, 0.0); (495146.0,
3761516.4, 743.9, 743.9, 0.0);
(495166.0, 3761516.4, 744.1, 744.1, 0.0); (495186.0,
3761516.4, 744.5, 744.5, 0.0);
(495206.0, 3761516.4, 745.0, 745.0, 0.0); (495226.0,
3761516.4, 745.5, 745.5, 0.0);
(495246.0, 3761516.4, 746.0, 746.0, 0.0); (495266.0,
3761516.4, 746.4, 746.4, 0.0);
(495286.0, 3761516.4, 746.9, 746.9, 0.0); (495306.0,
3761516.4, 747.6, 747.6, 0.0);
(495326.0, 3761516.4, 748.4, 748.4, 0.0); (495346.0,
3761516.4, 749.3, 749.3, 0.0);
(495366.0, 3761516.4, 749.6, 749.6, 0.0); (495386.0,
3761516.4, 749.9, 749.9, 0.0);
(495406.0, 3761516.4, 750.5, 750.5, 0.0); (495426.0,
3761516.4, 751.4, 751.4, 0.0);
(495446.0, 3761516.4, 752.8, 752.8, 0.0); (495466.0,
3761516.4, 752.8, 752.8, 0.0);
(495486.0, 3761516.4, 752.9, 752.9, 0.0); (495506.0,
3761516.4, 753.2, 753.2, 0.0);
(495526.0, 3761516.4, 753.9, 753.9, 0.0); (494866.0,
3761536.4, 738.4, 738.4, 0.0);
(494886.0, 3761536.4, 738.9, 738.9, 0.0); (494906.0,
3761536.4, 739.1, 739.1, 0.0);
(494926.0, 3761536.4, 739.5, 739.5, 0.0); (494946.0,
3761536.4, 740.0, 740.0, 0.0);
(494966.0, 3761536.4, 740.6, 740.6, 0.0); (494986.0,
3761536.4, 741.0, 741.0, 0.0);
(495006.0, 3761536.4, 741.0, 741.0, 0.0); (495026.0,
3761536.4, 741.4, 741.4, 0.0);
(495046.0, 3761536.4, 742.1, 742.1, 0.0); (495066.0,
3761536.4, 742.8, 742.8, 0.0);
(495086.0, 3761536.4, 743.2, 743.2, 0.0); (495106.0,
3761536.4, 743.5, 743.5, 0.0);

```
     ( 495126.0, 3761536.4,     743.9,     743.9,       0.0);         ( 495146.0,
3761536.4,     744.3,     744.3,       0.0);
     ( 495166.0, 3761536.4,     744.6,     744.6,       0.0);         ( 495186.0,
3761536.4,     745.0,     745.0,       0.0);
     ( 495206.0, 3761536.4,     745.4,     745.4,       0.0);         ( 495226.0,
3761536.4,     745.8,     745.8,       0.0);
     ( 495246.0, 3761536.4,     746.3,     746.3,       0.0);         ( 495266.0,
3761536.4,     746.8,     746.8,       0.0);
     ( 495286.0, 3761536.4,     747.3,     747.3,       0.0);         ( 495306.0,
3761536.4,     747.9,     747.9,       0.0);
     ( 495326.0, 3761536.4,     748.5,     748.5,       0.0);         ( 495346.0,
3761536.4,     749.2,     749.2,       0.0);
     ( 495366.0, 3761536.4,     749.6,     749.6,       0.0);         ( 495386.0,
3761536.4,     750.0,     750.0,       0.0);
     ( 495406.0, 3761536.4,     750.6,     750.6,       0.0);         ( 495426.0,
3761536.4,     751.5,     751.5,       0.0);
     ( 495446.0, 3761536.4,     752.8,     752.8,       0.0);         ( 495466.0,
3761536.4,     752.9,     752.9,       0.0);
     ( 495486.0, 3761536.4,     753.1,     753.1,       0.0);         ( 495506.0,
3761536.4,     753.4,     753.4,       0.0);
     ( 495526.0, 3761536.4,     754.1,     754.1,       0.0);         ( 494866.0,
3761556.4,     738.5,     738.5,       0.0);
     ( 494886.0, 3761556.4,     739.0,     739.0,       0.0);         ( 494906.0,
3761556.4,     739.2,     739.2,       0.0);
     ( 494926.0, 3761556.4,     739.6,     739.6,       0.0);         ( 494946.0,
3761556.4,     740.2,     740.2,       0.0);
     ( 494966.0, 3761556.4,     740.7,     740.7,       0.0);         ( 494986.0,
3761556.4,     741.1,     741.1,       0.0);
     ( 495006.0, 3761556.4,     741.2,     741.2,       0.0);         ( 495026.0,
3761556.4,     741.7,     741.7,       0.0);
     ( 495046.0, 3761556.4,     742.4,     742.4,       0.0);         ( 495066.0,
3761556.4,     743.1,     743.1,       0.0);
     ( 495086.0, 3761556.4,     743.4,     743.4,       0.0);         ( 495106.0,
3761556.4,     743.8,     743.8,       0.0);
     ( 495126.0, 3761556.4,     744.3,     744.3,       0.0);         ( 495146.0,
3761556.4,     744.8,     744.8,       0.0);
     ( 495166.0, 3761556.4,     745.1,     745.1,       0.0);         ( 495186.0,
3761556.4,     745.5,     745.5,       0.0);
     ( 495206.0, 3761556.4,     745.9,     745.9,       0.0);         ( 495226.0,
3761556.4,     746.3,     746.3,       0.0);
     ( 495246.0, 3761556.4,     746.8,     746.8,       0.0);         ( 495266.0,
3761556.4,     747.2,     747.2,       0.0);
     ( 495286.0, 3761556.4,     747.6,     747.6,       0.0);         ( 495306.0,
3761556.4,     748.1,     748.1,       0.0);
     ( 495326.0, 3761556.4,     748.6,     748.6,       0.0);         ( 495346.0,
3761556.4,     749.1,     749.1,       0.0);
     ( 495366.0, 3761556.4,     749.7,     749.7,       0.0);         ( 495386.0,
3761556.4,     750.2,     750.2,       0.0);
     ( 495406.0, 3761556.4,     750.8,     750.8,       0.0);         ( 495426.0,
3761556.4,     751.5,     751.5,       0.0);
```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(495526.0, 3761556.4, 754.3, 754.3, 0.0); (494846.0, 3761576.4, 738.0, 738.0, 0.0);
(494866.0, 3761576.4, 738.6, 738.6, 0.0); (494886.0, 3761576.4, 739.1, 739.1, 0.0);
(494906.0, 3761576.4, 739.3, 739.3, 0.0); (494926.0, 3761576.4, 739.7, 739.7, 0.0);
(494946.0, 3761576.4, 740.3, 740.3, 0.0); (494966.0, 3761576.4, 740.8, 740.8, 0.0);
(494986.0, 3761576.4, 741.2, 741.2, 0.0); (495006.0, 3761576.4, 741.4, 741.4, 0.0);
(495026.0, 3761576.4, 741.9, 741.9, 0.0); (495046.0, 3761576.4, 742.6, 742.6, 0.0);
(495066.0, 3761576.4, 743.3, 743.3, 0.0); (495086.0, 3761576.4, 743.5, 743.5, 0.0);
(495106.0, 3761576.4, 743.9, 743.9, 0.0); (495126.0, 3761576.4, 744.4, 744.4, 0.0);
(495146.0, 3761576.4, 745.0, 745.0, 0.0); (495166.0, 3761576.4, 745.5, 745.5, 0.0);
(495186.0, 3761576.4, 746.0, 746.0, 0.0); (495206.0, 3761576.4, 746.5, 746.5, 0.0);
(495226.0, 3761576.4, 747.0, 747.0, 0.0); (495246.0, 3761576.4, 747.5, 747.5, 0.0);
(495266.0, 3761576.4, 748.0, 748.0, 0.0); (495286.0, 3761576.4, 748.4, 748.4, 0.0);
(495306.0, 3761576.4, 748.9, 748.9, 0.0); (495326.0, 3761576.4, 749.3, 749.3, 0.0);
(495346.0, 3761576.4, 749.7, 749.7, 0.0); (495366.0, 3761576.4, 750.2, 750.2, 0.0);
(495386.0, 3761576.4, 750.7, 750.7, 0.0); (495406.0, 3761576.4, 751.1, 751.1, 0.0);
(495426.0, 3761576.4, 751.6, 751.6, 0.0); (495446.0, 3761576.4, 752.4, 752.4, 0.0);
(495466.0, 3761576.4, 753.0, 753.0, 0.0); (495486.0, 3761576.4, 753.4, 753.4, 0.0);

```
    ( 495506.0, 3761576.4,     753.9,     753.9,       0.0);         ( 495526.0,
3761576.4,     754.6,     754.6,       0.0);
    ( 494846.0, 3761596.4,     738.1,     738.1,       0.0);         ( 494866.0,
3761596.4,     738.7,     738.7,       0.0);
    ( 494886.0, 3761596.4,     739.2,     739.2,       0.0);         ( 494906.0,
3761596.4,     739.4,     739.4,       0.0);
    ( 494926.0, 3761596.4,     739.8,     739.8,       0.0);         ( 494946.0,
3761596.4,     740.4,     740.4,       0.0);
    ( 494966.0, 3761596.4,     740.9,     740.9,       0.0);         ( 494986.0,
3761596.4,     741.3,     741.3,       0.0);
    ( 495006.0, 3761596.4,     741.6,     741.6,       0.0);         ( 495026.0,
3761596.4,     742.2,     742.2,       0.0);
    ( 495046.0, 3761596.4,     742.8,     742.8,       0.0);         ( 495066.0,
3761596.4,     743.4,     743.4,       0.0);
    ( 495086.0, 3761596.4,     743.6,     743.6,       0.0);         ( 495106.0,
3761596.4,     744.0,     744.0,       0.0);
    ( 495126.0, 3761596.4,     744.5,     744.5,       0.0);         ( 495146.0,
3761596.4,     745.1,     745.1,       0.0);
    ( 495166.0, 3761596.4,     745.7,     745.7,       0.0);         ( 495186.0,
3761596.4,     746.3,     746.3,       0.0);
    ( 495206.0, 3761596.4,     746.8,     746.8,       0.0);         ( 495226.0,
3761596.4,     747.4,     747.4,       0.0);
    ( 495246.0, 3761596.4,     747.9,     747.9,       0.0);         ( 495266.0,
3761596.4,     748.5,     748.5,       0.0);
    ( 495286.0, 3761596.4,     748.9,     748.9,       0.0);         ( 495306.0,
3761596.4,     749.3,     749.3,       0.0);
    ( 495326.0, 3761596.4,     749.7,     749.7,       0.0);         ( 495346.0,
3761596.4,     750.1,     750.1,       0.0);
    ( 495366.0, 3761596.4,     750.6,     750.6,       0.0);         ( 495386.0,
3761596.4,     751.1,     751.1,       0.0);
    ( 495406.0, 3761596.4,     751.6,     751.6,       0.0);         ( 495426.0,
3761596.4,     752.0,     752.0,       0.0);
    ( 495446.0, 3761596.4,     752.5,     752.5,       0.0);         ( 495466.0,
3761596.4,     753.0,     753.0,       0.0);
    ( 495486.0, 3761596.4,     753.5,     753.5,       0.0);         ( 495506.0,
3761596.4,     754.2,     754.2,       0.0);
    ( 495526.0, 3761596.4,     754.9,     754.9,       0.0);         ( 494846.0,
3761616.4,     738.3,     738.3,       0.0);
    ( 494866.0, 3761616.4,     738.8,     738.8,       0.0);         ( 494886.0,
3761616.4,     739.3,     739.3,       0.0);
    ( 494906.0, 3761616.4,     739.5,     739.5,       0.0);         ( 494926.0,
3761616.4,     739.8,     739.8,       0.0);
    ( 494946.0, 3761616.4,     740.4,     740.4,       0.0);         ( 494966.0,
3761616.4,     741.0,     741.0,       0.0);
    ( 494986.0, 3761616.4,     741.4,     741.4,       0.0);         ( 495006.0,
3761616.4,     741.8,     741.8,       0.0);
    ( 495026.0, 3761616.4,     742.4,     742.4,       0.0);         ( 495046.0,
3761616.4,     743.0,     743.0,       0.0);
    ( 495066.0, 3761616.4,     743.5,     743.5,       0.0);         ( 495086.0,
3761616.4,     743.7,     743.7,       0.0);
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(495106.0, 3761616.4, 744.1, 744.1, 0.0); (495126.0, 3761616.4, 744.6, 744.6, 0.0);
(495146.0, 3761616.4, 745.2, 745.2, 0.0); (495166.0, 3761616.4, 745.8, 745.8, 0.0);
(495186.0, 3761616.4, 746.3, 746.3, 0.0); (495206.0, 3761616.4, 746.9, 746.9, 0.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(495226.0, 3761616.4, 747.4, 747.4, 0.0); (495246.0, 3761616.4, 747.9, 747.9, 0.0);
(495266.0, 3761616.4, 748.5, 748.5, 0.0); (495286.0, 3761616.4, 749.0, 749.0, 0.0);
(495306.0, 3761616.4, 749.5, 749.5, 0.0); (495326.0, 3761616.4, 749.9, 749.9, 0.0);
(495346.0, 3761616.4, 750.4, 750.4, 0.0); (495366.0, 3761616.4, 750.9, 750.9, 0.0);
(495386.0, 3761616.4, 751.5, 751.5, 0.0); (495406.0, 3761616.4, 752.0, 752.0, 0.0);
(495426.0, 3761616.4, 752.5, 752.5, 0.0); (495446.0, 3761616.4, 752.8, 752.8, 0.0);
(495466.0, 3761616.4, 753.2, 753.2, 0.0); (495486.0, 3761616.4, 753.8, 753.8, 0.0);
(495506.0, 3761616.4, 754.4, 754.4, 0.0); (495526.0, 3761616.4, 755.2, 755.2, 0.0);
(494846.0, 3761636.4, 738.4, 738.4, 0.0); (494866.0, 3761636.4, 738.9, 738.9, 0.0);
(494886.0, 3761636.4, 739.4, 739.4, 0.0); (494906.0, 3761636.4, 739.6, 739.6, 0.0);
(494926.0, 3761636.4, 740.0, 740.0, 0.0); (494946.0, 3761636.4, 740.6, 740.6, 0.0);
(494966.0, 3761636.4, 741.2, 741.2, 0.0); (494986.0, 3761636.4, 741.5, 741.5, 0.0);
(495006.0, 3761636.4, 741.9, 741.9, 0.0); (495026.0, 3761636.4, 742.4, 742.4, 0.0);
(495046.0, 3761636.4, 743.0, 743.0, 0.0); (495066.0, 3761636.4, 743.5, 743.5, 0.0);
(495086.0, 3761636.4, 743.8, 743.8, 0.0); (495106.0, 3761636.4, 744.2, 744.2, 0.0);
(495126.0, 3761636.4, 744.8, 744.8, 0.0); (495146.0, 3761636.4, 745.4, 745.4, 0.0);

```
     ( 495166.0, 3761636.4,     746.0,     746.0,       0.0);         ( 495186.0,
3761636.4,     746.6,     746.6,       0.0);
     ( 495206.0, 3761636.4,     747.1,     747.1,       0.0);         ( 495226.0,
3761636.4,     747.6,     747.6,       0.0);
     ( 495246.0, 3761636.4,     748.1,     748.1,       0.0);         ( 495266.0,
3761636.4,     748.7,     748.7,       0.0);
     ( 495286.0, 3761636.4,     749.2,     749.2,       0.0);         ( 495306.0,
3761636.4,     749.6,     749.6,       0.0);
     ( 495326.0, 3761636.4,     750.1,     750.1,       0.0);         ( 495346.0,
3761636.4,     750.5,     750.5,       0.0);
     ( 495366.0, 3761636.4,     750.9,     750.9,       0.0);         ( 495386.0,
3761636.4,     751.5,     751.5,       0.0);
     ( 495406.0, 3761636.4,     752.1,     752.1,       0.0);         ( 495426.0,
3761636.4,     752.8,     752.8,       0.0);
     ( 495446.0, 3761636.4,     753.3,     753.3,       0.0);         ( 495466.0,
3761636.4,     753.6,     753.6,       0.0);
     ( 495486.0, 3761636.4,     754.1,     754.1,       0.0);         ( 495506.0,
3761636.4,     754.8,     754.8,       0.0);
     ( 495526.0, 3761636.4,     755.5,     755.5,       0.0);         ( 494846.0,
3761656.4,     738.5,     738.5,       0.0);
     ( 494866.0, 3761656.4,     739.0,     739.0,       0.0);         ( 494886.0,
3761656.4,     739.5,     739.5,       0.0);
     ( 494906.0, 3761656.4,     739.7,     739.7,       0.0);         ( 494926.0,
3761656.4,     740.2,     740.2,       0.0);
     ( 494946.0, 3761656.4,     740.8,     740.8,       0.0);         ( 494966.0,
3761656.4,     741.3,     741.3,       0.0);
     ( 494986.0, 3761656.4,     741.6,     741.6,       0.0);         ( 495006.0,
3761656.4,     742.1,     742.1,       0.0);
     ( 495026.0, 3761656.4,     742.5,     742.5,       0.0);         ( 495046.0,
3761656.4,     743.1,     743.1,       0.0);
     ( 495066.0, 3761656.4,     743.6,     743.6,       0.0);         ( 495086.0,
3761656.4,     743.9,     743.9,       0.0);
     ( 495106.0, 3761656.4,     744.3,     744.3,       0.0);         ( 495126.0,
3761656.4,     745.0,     745.0,       0.0);
     ( 495146.0, 3761656.4,     745.6,     745.6,       0.0);         ( 495166.0,
3761656.4,     746.2,     746.2,       0.0);
     ( 495186.0, 3761656.4,     746.7,     746.7,       0.0);         ( 495206.0,
3761656.4,     747.2,     747.2,       0.0);
     ( 495226.0, 3761656.4,     747.7,     747.7,       0.0);         ( 495246.0,
3761656.4,     748.2,     748.2,       0.0);
     ( 495266.0, 3761656.4,     748.7,     748.7,       0.0);         ( 495286.0,
3761656.4,     749.3,     749.3,       0.0);
     ( 495306.0, 3761656.4,     749.8,     749.8,       0.0);         ( 495326.0,
3761656.4,     750.2,     750.2,       0.0);
     ( 495346.0, 3761656.4,     750.6,     750.6,       0.0);         ( 495366.0,
3761656.4,     751.0,     751.0,       0.0);
     ( 495386.0, 3761656.4,     751.5,     751.5,       0.0);         ( 495406.0,
3761656.4,     752.2,     752.2,       0.0);
     ( 495426.0, 3761656.4,     753.0,     753.0,       0.0);         ( 495446.0,
3761656.4,     753.8,     753.8,       0.0);
```

(495466.0, 3761656.4, 754.1, 754.1, 0.0); (495486.0, 3761656.4, 754.5, 754.5, 0.0);
(495506.0, 3761656.4, 755.1, 755.1, 0.0); (495526.0, 3761656.4, 755.8, 755.8, 0.0);
(494846.0, 3761676.4, 738.6, 738.6, 0.0); (494866.0, 3761676.4, 739.2, 739.2, 0.0);
(494886.0, 3761676.4, 739.6, 739.6, 0.0); (494906.0, 3761676.4, 739.9, 739.9, 0.0);

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(494926.0, 3761676.4, 740.4, 740.4, 0.0); (494946.0, 3761676.4, 741.0, 741.0, 0.0);
(494966.0, 3761676.4, 741.5, 741.5, 0.0); (494986.0, 3761676.4, 741.8, 741.8, 0.0);
(495006.0, 3761676.4, 742.2, 742.2, 0.0); (495026.0, 3761676.4, 742.8, 742.8, 0.0);
(495046.0, 3761676.4, 743.3, 743.3, 0.0); (495066.0, 3761676.4, 743.8, 743.8, 0.0);
(495086.0, 3761676.4, 744.0, 744.0, 0.0); (495106.0, 3761676.4, 744.5, 744.5, 0.0);
(495126.0, 3761676.4, 745.1, 745.1, 0.0); (495146.0, 3761676.4, 745.7, 745.7, 0.0);
(495166.0, 3761676.4, 746.2, 746.2, 0.0); (495186.0, 3761676.4, 746.8, 746.8, 0.0);
(495206.0, 3761676.4, 747.2, 747.2, 0.0); (495226.0, 3761676.4, 747.7, 747.7, 0.0);
(495246.0, 3761676.4, 748.2, 748.2, 0.0); (495266.0, 3761676.4, 748.7, 748.7, 0.0);
(495286.0, 3761676.4, 749.2, 749.2, 0.0); (495306.0, 3761676.4, 749.8, 749.8, 0.0);
(495326.0, 3761676.4, 750.4, 750.4, 0.0); (495346.0, 3761676.4, 750.9, 750.9, 0.0);
(495366.0, 3761676.4, 751.3, 751.3, 0.0); (495386.0, 3761676.4, 751.7, 751.7, 0.0);
(495406.0, 3761676.4, 752.2, 752.2, 0.0); (495426.0, 3761676.4, 753.0, 753.0, 0.0);
(495446.0, 3761676.4, 754.1, 754.1, 0.0); (495466.0, 3761676.4, 754.5, 754.5, 0.0);
(495486.0, 3761676.4, 754.9, 754.9, 0.0); (495506.0, 3761676.4, 755.4, 755.4, 0.0);

```
    ( 495526.0, 3761676.4,     756.0,     756.0,       0.0);         ( 494846.0,
3761696.4,     738.7,     738.7,       0.0);
    ( 494866.0, 3761696.4,     739.3,     739.3,       0.0);         ( 494886.0,
3761696.4,     739.7,     739.7,       0.0);
    ( 494906.0, 3761696.4,     740.0,     740.0,       0.0);         ( 494926.0,
3761696.4,     740.5,     740.5,       0.0);
    ( 494946.0, 3761696.4,     741.1,     741.1,       0.0);         ( 494966.0,
3761696.4,     741.6,     741.6,       0.0);
    ( 494986.0, 3761696.4,     742.0,     742.0,       0.0);         ( 495006.0,
3761696.4,     742.4,     742.4,       0.0);
    ( 495026.0, 3761696.4,     743.0,     743.0,       0.0);         ( 495046.0,
3761696.4,     743.5,     743.5,       0.0);
    ( 495066.0, 3761696.4,     744.0,     744.0,       0.0);         ( 495086.0,
3761696.4,     744.3,     744.3,       0.0);
    ( 495106.0, 3761696.4,     744.7,     744.7,       0.0);         ( 495126.0,
3761696.4,     745.2,     745.2,       0.0);
    ( 495146.0, 3761696.4,     745.8,     745.8,       0.0);         ( 495166.0,
3761696.4,     746.3,     746.3,       0.0);
    ( 495186.0, 3761696.4,     746.7,     746.7,       0.0);         ( 495206.0,
3761696.4,     747.2,     747.2,       0.0);
    ( 495226.0, 3761696.4,     747.8,     747.8,       0.0);         ( 495246.0,
3761696.4,     748.3,     748.3,       0.0);
    ( 495266.0, 3761696.4,     748.7,     748.7,       0.0);         ( 495286.0,
3761696.4,     749.2,     749.2,       0.0);
    ( 495306.0, 3761696.4,     749.8,     749.8,       0.0);         ( 495326.0,
3761696.4,     750.4,     750.4,       0.0);
    ( 495346.0, 3761696.4,     750.9,     750.9,       0.0);         ( 495366.0,
3761696.4,     751.4,     751.4,       0.0);
    ( 495386.0, 3761696.4,     751.9,     751.9,       0.0);         ( 495406.0,
3761696.4,     752.3,     752.3,       0.0);
    ( 495426.0, 3761696.4,     752.9,     752.9,       0.0);         ( 495446.0,
3761696.4,     753.9,     753.9,       0.0);
    ( 495466.0, 3761696.4,     754.8,     754.8,       0.0);         ( 495486.0,
3761696.4,     755.3,     755.3,       0.0);
    ( 495506.0, 3761696.4,     755.7,     755.7,       0.0);         ( 495526.0,
3761696.4,     756.2,     756.2,       0.0);
    ( 494846.0, 3761716.4,     738.8,     738.8,       0.0);         ( 494866.0,
3761716.4,     739.4,     739.4,       0.0);
    ( 494886.0, 3761716.4,     739.8,     739.8,       0.0);         ( 494906.0,
3761716.4,     740.0,     740.0,       0.0);
    ( 494926.0, 3761716.4,     740.6,     740.6,       0.0);         ( 494946.0,
3761716.4,     741.2,     741.2,       0.0);
    ( 494966.0, 3761716.4,     741.7,     741.7,       0.0);         ( 494986.0,
3761716.4,     742.1,     742.1,       0.0);
    ( 495006.0, 3761716.4,     742.6,     742.6,       0.0);         ( 495026.0,
3761716.4,     743.2,     743.2,       0.0);
    ( 495046.0, 3761716.4,     743.8,     743.8,       0.0);         ( 495066.0,
3761716.4,     744.2,     744.2,       0.0);
    ( 495086.0, 3761716.4,     744.5,     744.5,       0.0);         ( 495106.0,
3761716.4,     745.0,     745.0,       0.0);
```

(495126.0, 3761716.4, 745.5, 745.5, 0.0); (495146.0, 3761716.4, 745.9, 745.9, 0.0);
(495166.0, 3761716.4, 746.4, 746.4, 0.0); (495186.0, 3761716.4, 746.8, 746.8, 0.0);
(495206.0, 3761716.4, 747.3, 747.3, 0.0); (495226.0, 3761716.4, 747.9, 747.9, 0.0);
(495246.0, 3761716.4, 748.5, 748.5, 0.0); (495266.0, 3761716.4, 748.8, 748.8, 0.0);
(495286.0, 3761716.4, 749.2, 749.2, 0.0); (495306.0, 3761716.4, 749.8, 749.8, 0.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(495326.0, 3761716.4, 750.3, 750.3, 0.0); (495346.0, 3761716.4, 750.9, 750.9, 0.0);
(495366.0, 3761716.4, 751.5, 751.5, 0.0); (495386.0, 3761716.4, 752.0, 752.0, 0.0);
(495406.0, 3761716.4, 752.5, 752.5, 0.0); (495426.0, 3761716.4, 753.0, 753.0, 0.0);
(495446.0, 3761716.4, 753.7, 753.7, 0.0); (495466.0, 3761716.4, 754.9, 754.9, 0.0);
(495486.0, 3761716.4, 755.5, 755.5, 0.0); (495506.0, 3761716.4, 755.9, 755.9, 0.0);
(495526.0, 3761716.4, 756.3, 756.3, 0.0); (495546.0, 3761716.4, 756.7, 756.7, 0.0);
(494846.0, 3761736.4, 738.9, 738.9, 0.0); (494866.0, 3761736.4, 739.4, 739.4, 0.0);
(494886.0, 3761736.4, 739.7, 739.7, 0.0); (494906.0, 3761736.4, 740.0, 740.0, 0.0);
(494926.0, 3761736.4, 740.6, 740.6, 0.0); (494946.0, 3761736.4, 741.2, 741.2, 0.0);
(494966.0, 3761736.4, 741.8, 741.8, 0.0); (494986.0, 3761736.4, 742.1, 742.1, 0.0);
(495006.0, 3761736.4, 742.6, 742.6, 0.0); (495026.0, 3761736.4, 743.3, 743.3, 0.0);
(495046.0, 3761736.4, 743.9, 743.9, 0.0); (495066.0, 3761736.4, 744.3, 744.3, 0.0);
(495086.0, 3761736.4, 744.6, 744.6, 0.0); (495106.0, 3761736.4, 745.2, 745.2, 0.0);
(495126.0, 3761736.4, 745.7, 745.7, 0.0); (495146.0, 3761736.4, 746.2, 746.2, 0.0);

```
     ( 495166.0, 3761736.4,     746.6,     746.6,       0.0);         ( 495186.0,
3761736.4,     747.0,     747.0,       0.0);
     ( 495206.0, 3761736.4,     747.6,     747.6,       0.0);         ( 495226.0,
3761736.4,     748.3,     748.3,       0.0);
     ( 495246.0, 3761736.4,     748.9,     748.9,       0.0);         ( 495266.0,
3761736.4,     749.1,     749.1,       0.0);
     ( 495286.0, 3761736.4,     749.4,     749.4,       0.0);         ( 495306.0,
3761736.4,     749.8,     749.8,       0.0);
     ( 495326.0, 3761736.4,     750.3,     750.3,       0.0);         ( 495346.0,
3761736.4,     750.8,     750.8,       0.0);
     ( 495366.0, 3761736.4,     751.4,     751.4,       0.0);         ( 495386.0,
3761736.4,     752.1,     752.1,       0.0);
     ( 495406.0, 3761736.4,     752.6,     752.6,       0.0);         ( 495426.0,
3761736.4,     753.0,     753.0,       0.0);
     ( 495446.0, 3761736.4,     753.5,     753.5,       0.0);         ( 495466.0,
3761736.4,     754.7,     754.7,       0.0);
     ( 495486.0, 3761736.4,     755.4,     755.4,       0.0);         ( 495506.0,
3761736.4,     755.8,     755.8,       0.0);
     ( 495526.0, 3761736.4,     756.2,     756.2,       0.0);         ( 495546.0,
3761736.4,     756.7,     756.7,       0.0);
     ( 494846.0, 3761756.4,     738.9,     738.9,       0.0);         ( 494866.0,
3761756.4,     739.3,     739.3,       0.0);
     ( 494886.0, 3761756.4,     739.6,     739.6,       0.0);         ( 494906.0,
3761756.4,     740.0,     740.0,       0.0);
     ( 494926.0, 3761756.4,     740.5,     740.5,       0.0);         ( 494946.0,
3761756.4,     741.1,     741.1,       0.0);
     ( 494966.0, 3761756.4,     741.7,     741.7,       0.0);         ( 494986.0,
3761756.4,     742.1,     742.1,       0.0);
     ( 495006.0, 3761756.4,     742.6,     742.6,       0.0);         ( 495026.0,
3761756.4,     743.2,     743.2,       0.0);
     ( 495046.0, 3761756.4,     743.8,     743.8,       0.0);         ( 495066.0,
3761756.4,     744.2,     744.2,       0.0);
     ( 495086.0, 3761756.4,     744.6,     744.6,       0.0);         ( 495106.0,
3761756.4,     745.2,     745.2,       0.0);
     ( 495126.0, 3761756.4,     745.8,     745.8,       0.0);         ( 495146.0,
3761756.4,     746.3,     746.3,       0.0);
     ( 495166.0, 3761756.4,     746.8,     746.8,       0.0);         ( 495186.0,
3761756.4,     747.2,     747.2,       0.0);
     ( 495206.0, 3761756.4,     747.6,     747.6,       0.0);         ( 495226.0,
3761756.4,     748.3,     748.3,       0.0);
     ( 495246.0, 3761756.4,     748.9,     748.9,       0.0);         ( 495266.0,
3761756.4,     749.1,     749.1,       0.0);
     ( 495286.0, 3761756.4,     749.4,     749.4,       0.0);         ( 495306.0,
3761756.4,     749.9,     749.9,       0.0);
     ( 495326.0, 3761756.4,     750.4,     750.4,       0.0);         ( 495346.0,
3761756.4,     750.8,     750.8,       0.0);
     ( 495366.0, 3761756.4,     751.4,     751.4,       0.0);         ( 495386.0,
3761756.4,     752.1,     752.1,       0.0);
     ( 495406.0, 3761756.4,     752.6,     752.6,       0.0);         ( 495426.0,
3761756.4,     753.0,     753.0,       0.0);
```

(495446.0, 3761756.4, 753.5, 753.5, 0.0); (495466.0, 3761756.4, 754.3, 754.3, 0.0);
(495486.0, 3761756.4, 754.9, 754.9, 0.0); (495506.0, 3761756.4, 755.4, 755.4, 0.0);
(495526.0, 3761756.4, 755.9, 755.9, 0.0); (495546.0, 3761756.4, 756.4, 756.4, 0.0);
(495566.0, 3761756.4, 756.9, 756.9, 0.0); (494846.0, 3761776.4, 738.8, 738.8, 0.0);
(494866.0, 3761776.4, 739.2, 739.2, 0.0); (494886.0, 3761776.4, 739.6, 739.6, 0.0);
(494906.0, 3761776.4, 740.0, 740.0, 0.0); (494926.0, 3761776.4, 740.5, 740.5, 0.0);

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(494946.0, 3761776.4, 741.1, 741.1, 0.0); (494966.0, 3761776.4, 741.6, 741.6, 0.0);
(494986.0, 3761776.4, 742.1, 742.1, 0.0); (495006.0, 3761776.4, 742.6, 742.6, 0.0);
(495026.0, 3761776.4, 743.2, 743.2, 0.0); (495046.0, 3761776.4, 743.7, 743.7, 0.0);
(495066.0, 3761776.4, 744.2, 744.2, 0.0); (495086.0, 3761776.4, 744.7, 744.7, 0.0);
(495106.0, 3761776.4, 745.3, 745.3, 0.0); (495126.0, 3761776.4, 745.9, 745.9, 0.0);
(495146.0, 3761776.4, 746.5, 746.5, 0.0); (495166.0, 3761776.4, 747.0, 747.0, 0.0);
(495186.0, 3761776.4, 747.3, 747.3, 0.0); (495206.0, 3761776.4, 747.7, 747.7, 0.0);
(495226.0, 3761776.4, 748.2, 748.2, 0.0); (495246.0, 3761776.4, 748.7, 748.7, 0.0);
(495266.0, 3761776.4, 749.0, 749.0, 0.0); (495286.0, 3761776.4, 749.5, 749.5, 0.0);
(495306.0, 3761776.4, 750.0, 750.0, 0.0); (495326.0, 3761776.4, 750.4, 750.4, 0.0);
(495346.0, 3761776.4, 750.9, 750.9, 0.0); (495366.0, 3761776.4, 751.4, 751.4, 0.0);
(495386.0, 3761776.4, 752.0, 752.0, 0.0); (495406.0, 3761776.4, 752.5, 752.5, 0.0);
(495426.0, 3761776.4, 752.9, 752.9, 0.0); (495446.0, 3761776.4, 753.4, 753.4, 0.0);

```
     ( 495466.0, 3761776.4,     754.0,     754.0,       0.0);         ( 495486.0,
3761776.4,     754.5,     754.5,       0.0);
     ( 495506.0, 3761776.4,     755.0,     755.0,       0.0);         ( 495526.0,
3761776.4,     755.5,     755.5,       0.0);
     ( 495546.0, 3761776.4,     756.1,     756.1,       0.0);         ( 495566.0,
3761776.4,     756.8,     756.8,       0.0);
     ( 494846.0, 3761796.4,     739.2,     739.2,       0.0);         ( 494866.0,
3761796.4,     739.6,     739.6,       0.0);
     ( 494886.0, 3761796.4,     740.0,     740.0,       0.0);         ( 494906.0,
3761796.4,     740.4,     740.4,       0.0);
     ( 494926.0, 3761796.4,     740.8,     740.8,       0.0);         ( 494946.0,
3761796.4,     741.3,     741.3,       0.0);
     ( 494966.0, 3761796.4,     741.9,     741.9,       0.0);         ( 494986.0,
3761796.4,     742.4,     742.4,       0.0);
     ( 495006.0, 3761796.4,     742.9,     742.9,       0.0);         ( 495026.0,
3761796.4,     743.4,     743.4,       0.0);
     ( 495046.0, 3761796.4,     743.9,     743.9,       0.0);         ( 495066.0,
3761796.4,     744.4,     744.4,       0.0);
     ( 495086.0, 3761796.4,     745.0,     745.0,       0.0);         ( 495106.0,
3761796.4,     745.5,     745.5,       0.0);
     ( 495126.0, 3761796.4,     746.1,     746.1,       0.0);         ( 495146.0,
3761796.4,     746.7,     746.7,       0.0);
     ( 495166.0, 3761796.4,     747.2,     747.2,       0.0);         ( 495186.0,
3761796.4,     747.5,     747.5,       0.0);
     ( 495206.0, 3761796.4,     747.8,     747.8,       0.0);         ( 495226.0,
3761796.4,     748.2,     748.2,       0.0);
     ( 495246.0, 3761796.4,     748.7,     748.7,       0.0);         ( 495266.0,
3761796.4,     749.1,     749.1,       0.0);
     ( 495286.0, 3761796.4,     749.5,     749.5,       0.0);         ( 495306.0,
3761796.4,     750.0,     750.0,       0.0);
     ( 495326.0, 3761796.4,     750.5,     750.5,       0.0);         ( 495346.0,
3761796.4,     751.0,     751.0,       0.0);
     ( 495366.0, 3761796.4,     751.5,     751.5,       0.0);         ( 495386.0,
3761796.4,     752.0,     752.0,       0.0);
     ( 495406.0, 3761796.4,     752.4,     752.4,       0.0);         ( 495426.0,
3761796.4,     752.9,     752.9,       0.0);
     ( 495446.0, 3761796.4,     753.4,     753.4,       0.0);         ( 495466.0,
3761796.4,     753.9,     753.9,       0.0);
     ( 495486.0, 3761796.4,     754.4,     754.4,       0.0);         ( 495506.0,
3761796.4,     754.9,     754.9,       0.0);
     ( 495526.0, 3761796.4,     755.4,     755.4,       0.0);         ( 495546.0,
3761796.4,     756.0,     756.0,       0.0);
     ( 495566.0, 3761796.4,     756.7,     756.7,       0.0);         ( 494966.0,
3761816.4,     742.1,     742.1,       0.0);
     ( 494986.0, 3761816.4,     742.6,     742.6,       0.0);         ( 495006.0,
3761816.4,     743.1,     743.1,       0.0);
     ( 495026.0, 3761816.4,     743.6,     743.6,       0.0);         ( 495046.0,
3761816.4,     744.1,     744.1,       0.0);
     ( 495066.0, 3761816.4,     744.6,     744.6,       0.0);         ( 495086.0,
3761816.4,     745.1,     745.1,       0.0);
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(495106.0, 3761816.4, 745.7, 745.7, 0.0); (495126.0, 3761816.4, 746.3, 746.3, 0.0);
(495146.0, 3761816.4, 746.9, 746.9, 0.0); (495166.0, 3761816.4, 747.4, 747.4, 0.0);
(495186.0, 3761816.4, 747.7, 747.7, 0.0); (495206.0, 3761816.4, 748.0, 748.0, 0.0);
(495226.0, 3761816.4, 748.4, 748.4, 0.0); (495246.0, 3761816.4, 748.9, 748.9, 0.0);
(495266.0, 3761816.4, 749.3, 749.3, 0.0); (495286.0, 3761816.4, 749.8, 749.8, 0.0);
(495306.0, 3761816.4, 750.2, 750.2, 0.0); (495326.0, 3761816.4, 750.7, 750.7, 0.0);
(495346.0, 3761816.4, 751.2, 751.2, 0.0); (495366.0, 3761816.4, 751.7, 751.7, 0.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(495386.0, 3761816.4, 752.1, 752.1, 0.0); (495406.0, 3761816.4, 752.6, 752.6, 0.0);
(495426.0, 3761816.4, 753.0, 753.0, 0.0); (495446.0, 3761816.4, 753.5, 753.5, 0.0);
(495466.0, 3761816.4, 753.9, 753.9, 0.0); (495486.0, 3761816.4, 754.4, 754.4, 0.0);
(495506.0, 3761816.4, 755.0, 755.0, 0.0); (495526.0, 3761816.4, 755.5, 755.5, 0.0);
(495546.0, 3761816.4, 756.1, 756.1, 0.0); (495566.0, 3761816.4, 756.8, 756.8, 0.0);
(495126.0, 3761836.4, 746.5, 746.5, 0.0); (495146.0, 3761836.4, 747.0, 747.0, 0.0);
(495166.0, 3761836.4, 747.5, 747.5, 0.0); (495186.0, 3761836.4, 747.8, 747.8, 0.0);
(495206.0, 3761836.4, 748.2, 748.2, 0.0); (495226.0, 3761836.4, 748.8, 748.8, 0.0);
(495366.0, 3761836.4, 752.0, 752.0, 0.0); (495386.0, 3761836.4, 752.4, 752.4, 0.0);
(495406.0, 3761836.4, 752.8, 752.8, 0.0); (495426.0, 3761836.4, 753.1, 753.1, 0.0);
(495446.0, 3761836.4, 753.6, 753.6, 0.0); (495466.0, 3761836.4, 754.0, 754.0, 0.0);
(495486.0, 3761836.4, 754.5, 754.5, 0.0); (495506.0, 3761836.4, 755.1, 755.1, 0.0);

```
     ( 495526.0, 3761836.4,     755.7,     755.7,       0.0);         ( 495546.0,
3761836.4,     756.3,     756.3,       0.0);
     ( 495566.0, 3761836.4,     757.0,     757.0,       0.0);         ( 495126.0,
3761856.4,     746.6,     746.6,       0.0);
     ( 495146.0, 3761856.4,     747.2,     747.2,       0.0);         ( 495166.0,
3761856.4,     747.6,     747.6,       0.0);
     ( 495186.0, 3761856.4,     747.9,     747.9,       0.0);         ( 495206.0,
3761856.4,     748.4,     748.4,       0.0);
     ( 495226.0, 3761856.4,     749.0,     749.0,       0.0);         ( 495386.0,
3761856.4,     752.5,     752.5,       0.0);
     ( 495406.0, 3761856.4,     752.8,     752.8,       0.0);         ( 495426.0,
3761856.4,     753.1,     753.1,       0.0);
     ( 495446.0, 3761856.4,     753.5,     753.5,       0.0);         ( 495466.0,
3761856.4,     754.0,     754.0,       0.0);
     ( 495486.0, 3761856.4,     754.5,     754.5,       0.0);         ( 495506.0,
3761856.4,     755.1,     755.1,       0.0);
     ( 495526.0, 3761856.4,     755.7,     755.7,       0.0);         ( 495546.0,
3761856.4,     756.5,     756.5,       0.0);
     ( 495566.0, 3761856.4,     757.3,     757.3,       0.0);         ( 495126.0,
3761876.4,     746.7,     746.7,       0.0);
     ( 495146.0, 3761876.4,     747.3,     747.3,       0.0);         ( 495166.0,
3761876.4,     747.8,     747.8,       0.0);
     ( 495186.0, 3761876.4,     748.1,     748.1,       0.0);         ( 495206.0,
3761876.4,     748.6,     748.6,       0.0);
     ( 495226.0, 3761876.4,     749.1,     749.1,       0.0);         ( 495386.0,
3761876.4,     752.5,     752.5,       0.0);
     ( 495406.0, 3761876.4,     752.8,     752.8,       0.0);         ( 495426.0,
3761876.4,     753.1,     753.1,       0.0);
     ( 495446.0, 3761876.4,     753.5,     753.5,       0.0);         ( 495466.0,
3761876.4,     754.0,     754.0,       0.0);
     ( 495486.0, 3761876.4,     754.4,     754.4,       0.0);         ( 495506.0,
3761876.4,     755.0,     755.0,       0.0);
     ( 495526.0, 3761876.4,     755.6,     755.6,       0.0);         ( 495546.0,
3761876.4,     756.4,     756.4,       0.0);
     ( 495566.0, 3761876.4,     757.4,     757.4,       0.0);         ( 495126.0,
3761896.4,     746.7,     746.7,       0.0);
     ( 495146.0, 3761896.4,     747.3,     747.3,       0.0);         ( 495166.0,
3761896.4,     747.9,     747.9,       0.0);
     ( 495186.0, 3761896.4,     748.2,     748.2,       0.0);         ( 495206.0,
3761896.4,     748.8,     748.8,       0.0);
     ( 495226.0, 3761896.4,     749.3,     749.3,       0.0);         ( 495386.0,
3761896.4,     752.6,     752.6,       0.0);
     ( 495406.0, 3761896.4,     752.8,     752.8,       0.0);         ( 495426.0,
3761896.4,     753.1,     753.1,       0.0);
     ( 495446.0, 3761896.4,     753.5,     753.5,       0.0);         ( 495466.0,
3761896.4,     753.9,     753.9,       0.0);
     ( 495486.0, 3761896.4,     754.3,     754.3,       0.0);         ( 495506.0,
3761896.4,     754.8,     754.8,       0.0);
     ( 495526.0, 3761896.4,     755.4,     755.4,       0.0);         ( 495546.0,
3761896.4,     756.3,     756.3,       0.0);
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(495566.0, 3761896.4, 757.3, 757.3, 0.0); (495586.0, 3761896.4, 757.9, 757.9, 0.0);
(495126.0, 3761916.4, 746.6, 746.6, 0.0); (495146.0, 3761916.4, 747.2, 747.2, 0.0);
(495166.0, 3761916.4, 747.8, 747.8, 0.0); (495186.0, 3761916.4, 748.2, 748.2, 0.0);
(495206.0, 3761916.4, 748.8, 748.8, 0.0); (495226.0, 3761916.4, 749.3, 749.3, 0.0);
(495386.0, 3761916.4, 752.8, 752.8, 0.0); (495406.0, 3761916.4, 753.0, 753.0, 0.0);
(495426.0, 3761916.4, 753.3, 753.3, 0.0); (495446.0, 3761916.4, 753.7, 753.7, 0.0);
(495466.0, 3761916.4, 754.1, 754.1, 0.0); (495486.0, 3761916.4, 754.5, 754.5, 0.0);
(495506.0, 3761916.4, 755.0, 755.0, 0.0); (495526.0, 3761916.4, 755.7, 755.7, 0.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(495546.0, 3761916.4, 756.5, 756.5, 0.0); (495566.0, 3761916.4, 757.4, 757.4, 0.0);
(495586.0, 3761916.4, 758.0, 758.0, 0.0); (495126.0, 3761936.4, 746.6, 746.6, 0.0);
(495146.0, 3761936.4, 747.1, 747.1, 0.0); (495166.0, 3761936.4, 747.7, 747.7, 0.0);
(495186.0, 3761936.4, 748.1, 748.1, 0.0); (495206.0, 3761936.4, 748.7, 748.7, 0.0);
(495226.0, 3761936.4, 749.2, 749.2, 0.0); (495146.0, 3761956.4, 747.1, 747.1, 0.0);
(495166.0, 3761956.4, 747.7, 747.7, 0.0); (495186.0, 3761956.4, 748.0, 748.0, 0.0);
(495206.0, 3761956.4, 748.6, 748.6, 0.0); (495226.0, 3761956.4, 749.1, 749.1, 0.0);
(495146.0, 3761976.4, 747.1, 747.1, 0.0); (495166.0, 3761976.4, 747.6, 747.6, 0.0);
(495186.0, 3761976.4, 748.0, 748.0, 0.0); (495206.0, 3761976.4, 748.5, 748.5, 0.0);
(495226.0, 3761976.4, 749.0, 749.0, 0.0); (495146.0, 3761996.4, 747.1, 747.1, 0.0);
(495166.0, 3761996.4, 747.6, 747.6, 0.0); (495186.0, 3761996.4, 747.9, 747.9, 0.0);

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     ( 495206.0, 3761996.4,     748.5,     748.5,       0.0);         ( 495226.0,
3761996.4,     749.0,     749.0,       0.0);
     ( 495146.0, 3762016.4,     747.1,     747.1,       0.0);         ( 495166.0,
3762016.4,     747.6,     747.6,       0.0);
     ( 495186.0, 3762016.4,     748.0,     748.0,       0.0);         ( 495206.0,
3762016.4,     748.5,     748.5,       0.0);
     ( 495226.0, 3762016.4,     749.0,     749.0,       0.0);         ( 495146.0,
3762036.4,     747.1,     747.1,       0.0);
     ( 495166.0, 3762036.4,     747.6,     747.6,       0.0);         ( 495186.0,
3762036.4,     748.0,     748.0,       0.0);
     ( 495206.0, 3762036.4,     748.6,     748.6,       0.0);         ( 495226.0,
3762036.4,     749.1,     749.1,       0.0);
     ( 495146.0, 3762056.4,     747.1,     747.1,       0.0);         ( 495166.0,
3762056.4,     747.5,     747.5,       0.0);
     ( 495186.0, 3762056.4,     748.0,     748.0,       0.0);         ( 495206.0,
3762056.4,     748.6,     748.6,       0.0);
     ( 495226.0, 3762056.4,     749.1,     749.1,       0.0);         ( 494031.1,
3761757.4,     724.4,     724.4,       0.0);
     ( 494022.5, 3761743.3,     724.3,     724.3,       0.0);         ( 494020.5,
3761734.1,     724.2,     724.2,       0.0);
     ( 494013.4, 3761724.0,     724.8,     724.8,       0.0);         ( 494002.7,
3761712.3,     725.2,     725.2,       0.0);
     ( 493991.6, 3761703.2,     724.8,     724.8,       0.0);         ( 493980.4,
3761692.6,     725.0,     725.0,       0.0);
     ( 493969.8, 3761686.5,     725.1,     725.1,       0.0);         ( 493957.6,
3761681.4,     725.4,     725.4,       0.0);
     ( 493943.9, 3761673.8,     724.6,     724.6,       0.0);         ( 493926.2,
3761672.8,     724.9,     724.9,       0.0);
     ( 493913.5, 3761671.3,     724.9,     724.9,       0.0);         ( 493899.8,
3761669.8,     725.2,     725.2,       0.0);
     ( 493832.4, 3761639.4,     727.3,     727.3,       0.0);         ( 493822.8,
3761647.5,     727.2,     727.2,       0.0);
     ( 493811.1, 3761658.1,     726.7,     726.7,       0.0);         ( 493809.6,
3761669.3,     726.4,     726.4,       0.0);
     ( 493817.7, 3761682.4,     726.4,     726.4,       0.0);         ( 493833.4,
3761689.5,     726.4,     726.4,       0.0);
     ( 493853.7, 3761695.1,     726.2,     726.2,       0.0);         ( 493871.5,
3761693.1,     726.2,     726.2,       0.0);
     ( 493888.2, 3761693.1,     726.0,     726.0,       0.0);         ( 493905.9,
3761693.6,     725.7,     725.7,       0.0);
     ( 493920.6, 3761694.6,     725.5,     725.5,       0.0);         ( 493939.4,
3761698.1,     725.3,     725.3,       0.0);
     ( 493959.6, 3761706.8,     725.2,     725.2,       0.0);         ( 493975.3,
3761717.4,     725.2,     725.2,       0.0);
     ( 493983.5, 3761726.0,     725.1,     725.1,       0.0);         ( 493991.1,
3761738.2,     725.0,     725.0,       0.0);
     ( 494001.2, 3761754.4,     725.1,     725.1,       0.0);         ( 493984.5,
3761753.4,     724.9,     724.9,       0.0);
     ( 493980.4, 3761746.8,     724.9,     724.9,       0.0);         ( 493970.8,
3761734.6,     724.8,     724.8,       0.0);
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(493843.6, 3761730.6, 723.9, 723.9, 0.0); (493875.0,
3761733.6, 724.0, 724.0, 0.0);
(493883.6, 3761733.1, 724.1, 724.1, 0.0); (493904.9,
3761734.6, 724.2, 724.2, 0.0);
(493928.7, 3761736.2, 724.3, 724.3, 0.0); (493941.4,
3761745.8, 724.3, 724.3, 0.0);
(493954.1, 3761758.5, 724.5, 724.5, 0.0); (493931.8,
3761757.4, 724.1, 724.1, 0.0);
(493915.5, 3761754.9, 723.9, 723.9, 0.0); (493903.4,
3761754.4, 723.6, 723.6, 0.0);
(493888.7, 3761754.4, 723.2, 723.2, 0.0); (493873.0,
3761753.9, 722.8, 722.8, 0.0);
(493851.7, 3761754.4, 721.9, 723.2, 0.0); (493835.5,
3761751.9, 721.7, 722.8, 0.0);
(493818.7, 3761751.4, 721.3, 722.8, 0.0); (493742.2,
3761651.0, 720.8, 724.8, 0.0);
(493742.2, 3761665.2, 720.1, 726.6, 0.0); (493742.2,
3761680.4, 719.3, 726.6, 0.0);
(493746.2, 3761695.1, 719.5, 726.0, 0.0); (493750.3,
3761708.8, 719.8, 726.0, 0.0);

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     ( 493754.9, 3761721.5,     720.5,     723.3,       0.0);         ( 493757.9,
3761732.6,     720.8,     720.8,       0.0);
     ( 493772.1, 3761750.4,     720.0,     721.3,       0.0);         ( 493760.4,
3761749.3,     719.8,     719.8,       0.0);
     ( 493749.3, 3761748.8,     719.5,     720.6,       0.0);         ( 493730.5,
3761748.8,     718.6,     719.6,       0.0);
     ( 493705.7, 3761747.3,     717.3,     717.3,       0.0);         ( 493712.8,
3761770.6,     714.2,     723.3,       0.0);
     ( 493739.7, 3761767.6,     716.2,     725.0,       0.0);         ( 493757.4,
3761769.1,     716.9,     725.0,       0.0);
     ( 493780.2, 3761771.1,     717.6,     725.0,       0.0);         ( 493801.5,
3761770.1,     718.3,     725.3,       0.0);
     ( 493830.9, 3761773.2,     718.8,     725.5,       0.0);         ( 493850.7,
3761773.7,     720.0,     723.2,       0.0);
     ( 493872.5, 3761773.7,     721.5,     721.5,       0.0);         ( 493893.8,
3761776.7,     722.8,     722.8,       0.0);
     ( 493908.5, 3761775.7,     723.6,     723.6,       0.0);         ( 493926.2,
3761779.8,     724.1,     724.1,       0.0);
     ( 493937.8, 3761778.7,     724.3,     724.3,       0.0);         ( 493952.5,
3761780.3,     724.6,     724.6,       0.0);
     ( 493967.8, 3761779.8,     724.8,     724.8,       0.0);         ( 493975.3,
3761783.8,     725.0,     725.0,       0.0);
     ( 493989.5, 3761780.3,     725.1,     725.1,       0.0);         ( 494000.2,
3761781.8,     725.2,     725.2,       0.0);
     ( 494014.9, 3761785.3,     725.4,     725.4,       0.0);         ( 494027.0,
3761785.8,     725.4,     725.4,       0.0);
     ( 494049.3, 3761786.3,     724.9,     724.9,       0.0);         ( 494066.1,
3761786.3,     724.5,     724.5,       0.0);
     ( 494171.3, 3761821.1,     727.2,     727.2,       0.0);         ( 494176.5,
3761840.8,     727.6,     727.6,       0.0);
     ( 494171.3, 3761886.2,     727.6,     727.6,       0.0);         ( 494831.5,
3761814.8,     738.9,     738.9,       0.0);
     ( 494846.3, 3761570.2,     738.0,     738.0,       0.0);         ( 494859.8,
3761515.1,     738.0,     738.0,       0.0);
     ( 494839.6, 3761451.9,     736.6,     736.6,       0.0);         ( 494863.6,
3761459.2,     737.4,     737.4,       0.0);
     ( 494888.0, 3761461.3,     738.0,     738.0,       0.0);         ( 494935.8,
3761473.0,     739.0,     739.0,       0.0);
     ( 494961.9, 3761422.4,     738.9,     738.9,       0.0);         ( 494996.5,
3761368.1,     737.8,     739.2,       0.0);
     ( 494991.5, 3761326.9,     737.3,     737.3,       0.0);         ( 495039.8,
3761351.1,     739.2,     739.2,       0.0);
     ( 495133.9, 3761336.3,     732.8,     732.8,       0.0);         ( 495229.3,
3761325.6,     734.8,     745.7,       0.0);
     ( 495414.8, 3761335.0,     748.4,     748.4,       0.0);         ( 495539.8,
3761406.2,     750.8,     750.8,       0.0);
     ( 495545.2, 3761697.9,     756.6,     756.6,       0.0);         ( 495576.1,
3761783.9,     757.1,     757.1,       0.0);
     ( 495589.5, 3761934.4,     758.0,     758.0,       0.0);         ( 495387.9,
3761934.4,     752.9,     752.9,       0.0);
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     ( 495359.7, 3761828.2,     751.7,     751.7,       0.0);         ( 495237.4,
3761820.2,     748.8,     748.8,       0.0);
     ( 495237.4, 3762072.8,     749.5,     749.5,       0.0);         ( 495127.2,
3762068.8,     746.6,     746.6,       0.0);
     ( 495124.5, 3761818.8,     746.3,     746.3,       0.0);         ( 494831.5,
3761814.8,     738.9,     738.9,       0.0);
     ( 494846.3, 3761570.2,     738.0,     738.0,       0.0);         ( 494859.8,
3761515.1,     738.0,     738.0,       0.0);
     ( 494839.6, 3761451.9,     736.6,     736.6,       0.0);         ( 494863.6,
3761459.2,     737.4,     737.4,       0.0);
     ( 494888.0, 3761461.3,     738.0,     738.0,       0.0);         ( 494935.8,
3761473.0,     739.0,     739.0,       0.0);
     ( 494961.9, 3761422.4,     738.9,     738.9,       0.0);         ( 494996.5,
3761368.1,     737.8,     739.2,       0.0);
     ( 494991.5, 3761326.9,     737.3,     737.3,       0.0);         ( 495039.8,
3761351.1,     739.2,     739.2,       0.0);
     ( 495133.9, 3761336.3,     732.8,     732.8,       0.0);         ( 495229.3,
3761325.6,     734.8,     745.7,       0.0);
     ( 495414.8, 3761335.0,     748.4,     748.4,       0.0);         ( 495539.8,
3761406.2,     750.8,     750.8,       0.0);
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                        ***        11:23:50

                                   PAGE  20
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                    (METERS)

     ( 495545.2, 3761697.9,     756.6,     756.6,       0.0);         ( 495576.1,
3761783.9,     757.1,     757.1,       0.0);
     ( 495589.5, 3761934.4,     758.0,     758.0,       0.0);         ( 495387.9,
3761934.4,     752.9,     752.9,       0.0);
     ( 495359.7, 3761828.2,     751.7,     751.7,       0.0);         ( 495237.4,
3761820.2,     748.8,     748.8,       0.0);
     ( 495237.4, 3762072.8,     749.5,     749.5,       0.0);         ( 495127.2,
3762068.8,     746.6,     746.6,       0.0);
     ( 495124.5, 3761818.8,     746.3,     746.3,       0.0);

 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                        ***        11:23:50

                                   PAGE  21
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***

(1=YES; 0=NO)

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           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
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1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
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1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
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1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
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NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: ..\rdld_sfc_pfl\RDLD_V11_trimmed.sfc
Met Version: 22112
Profile file: ..\rdld_sfc_pfl\RDLD_V11_trimmed.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 3102 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN

Year: 2018 Year: 2018

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
18	01	01	1	01	-3.0	0.077	-9.000	-9.000	-999.	51.	13.2	0.07	3.55	1.00	1.00	106.	10.0	280.6	9.0
18	01	01	1	02	-3.2	0.079	-9.000	-9.000	-999.	53.	13.4	0.07	3.55	1.00	1.04	108.	10.0	280.4	9.0
18	01	01	1	03	-3.2	0.080	-9.000	-9.000	-999.	54.	13.4	0.07	3.55	1.00	1.05	101.	10.0	280.6	9.0
18	01	01	1	04	-3.8	0.085	-9.000	-9.000	-999.	59.	14.0	0.07	3.55	1.00	1.14	100.	10.0	281.3	9.0
18	01	01	1	05	-3.3	0.080	-9.000	-9.000	-999.	55.	13.5	0.07	3.55	1.00	1.06	103.	10.0	280.6	9.0
18	01	01	1	06	-4.2	0.089	-9.000	-9.000	-999.	63.	14.5	0.07	3.55	1.00	1.21	103.	10.0	280.3	9.0
18	01	01	1	07	-3.8	0.086	-9.000	-9.000	-999.	60.	14.1	0.07	3.55	1.00	1.15	102.	10.0	280.3	9.0
18	01	01	1	08	-1.8	0.067	-9.000	-9.000	-999.	41.	14.3	0.07	3.55	0.54	0.91	99.	10.0	282.0	9.0
18	01	01	1	09	45.8	0.078	0.526	0.019	109.	52.	-1.0	0.07	3.55	0.33	0.50	122.	10.0	286.0	9.0
18	01	01	1	10	105.5	0.246	0.845	0.012	197.	293.	-12.2	0.41	3.55	0.26	1.33	189.	7.9	291.9	9.0
18	01	01	1	11	145.4	0.136	1.094	0.011	311.	126.	-1.5	0.08	3.55	0.23	0.91	307.	10.0	293.6	9.0
18	01	01	1	12	163.8	0.170	1.275	0.008	436.	169.	-2.6	0.06	3.55	0.22	1.41	290.	10.0	293.8	9.0
18	01	01	1	13	47.9	0.103	0.874	0.008	480.	80.	-2.0	0.07	3.55	0.22	0.76	242.	10.0	295.5	9.0
18	01	01	1	14	41.0	0.076	0.851	0.007	515.	51.	-1.0	0.08	3.55	0.24	0.47	308.	10.0	296.5	9.0
18	01	01	1	15	96.2	0.117	1.179	0.007	585.	97.	-1.4	0.07	3.55	0.27	0.82	265.	10.0	297.2	9.0
18	01	01	1	16	36.3	0.127	0.867	0.006	618.	108.	-4.8	0.08	3.55	0.36	1.05	323.	10.0	296.7	9.0
18	01	01	1	17	-1.1	0.058	-9.000	-9.000	-999.	35.	15.5	0.07	3.55	0.65	0.52	105.	10.0	294.9	9.0
18	01	01	1	18	-1.7	0.065	-9.000	-9.000	-999.	40.	14.1	0.07	3.55	1.00	0.67	110.	10.0	291.0	9.0
18	01	01	1	19	-3.0	0.077	-9.000	-9.000	-999.	51.	13.3	0.07	3.55	1.00	1.00	100.	10.0	288.4	9.0
18	01	01	1	20	-3.0	0.077	-9.000	-9.000	-999.	51.	13.3	0.07	3.55	1.00	1.00	99.	10.0	287.0	9.0

```
 18 01 01   1 21   -3.2  0.079 -9.000 -9.000 -999.   54.     13.5  0.07   3.55
1.00    1.05  108.   10.0  286.0    9.0
 18 01 01   1 22   -2.2  0.069 -9.000 -9.000 -999.   44.     13.3  0.07   3.55
1.00    0.81  111.   10.0  285.1    9.0
 18 01 01   1 23   -3.9  0.087 -9.000 -9.000 -999.   61.     14.3  0.07   3.55
1.00    1.17  102.   10.0  284.9    9.0
 18 01 01   1 24   -3.3  0.081 -9.000 -9.000 -999.   55.     13.6  0.07   3.55
1.00    1.07  108.   10.0  284.7    9.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 18 01 01 01    9.0 0 -999.  -99.00   280.6   99.0  -99.00  -99.00
 18 01 01 01   10.0 1  106.    1.00  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
↑ *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:23:50

                                  PAGE  23
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         494031.10    3761757.45        6.10955                      494022.49
3761743.26        6.10806
         494020.46    3761734.14        6.16815                      494013.36
3761724.00        6.14254
         494002.72    3761712.34        6.04988                      493991.57
```

3761703.22 5.90429
493980.42 3761692.58 5.77565 493969.78
3761686.49 5.62003
493957.61 3761681.43 5.43556 493943.93
3761673.82 5.23554
493926.19 3761672.81 4.95742 493913.51
3761671.29 4.77488
493899.83 3761669.77 4.59032 493832.42
3761639.36 3.87087
493822.79 3761647.47 3.75466 493811.13
3761658.11 3.61689
493809.61 3761669.26 3.57821 493817.72
3761682.44 3.62353
493833.43 3761689.53 3.75698 493853.71
3761695.11 3.94780
493871.45 3761693.08 4.15175 493888.17
3761693.08 4.35107
493905.91 3761693.59 4.57634 493920.61
3761694.60 4.77394
493939.36 3761698.15 5.03220 493959.64
3761706.77 5.30256
493975.35 3761717.41 5.49152 493983.46
3761726.03 5.56181
493991.06 3761738.19 5.58588 494001.20
3761754.41 5.60728
493984.47 3761753.40 5.33662 493980.42
3761746.81 5.32866
493970.79 3761734.64 5.27434 493953.56
3761728.06 5.05327
493937.34 3761717.41 4.88325 493921.12
3761715.38 4.66733
493906.93 3761711.33 4.50203 493887.16
3761711.33 4.25787
493870.43 3761711.33 4.06648 493857.76
3761710.82 3.93212
493843.06 3761709.81 3.78544 493829.38
3761709.81 3.65298
493806.57 3761701.19 3.47066 493799.47
3761683.96 3.45140
493797.45 3761663.18 3.47775 493779.71
3761668.25 3.31181
493775.14 3761687.51 3.23466 493782.75
3761700.18 3.26818
493793.39 3761716.90 3.31169 493809.10
3761730.59 3.39945
493821.27 3761732.11 3.49854 493843.57
3761730.59 3.70887
493874.99 3761733.63 4.01374 493883.61
3761733.12 4.11045
493904.90 3761734.64 4.34913 493928.72

3761736.17   4.64296
         493941.39   3761745.80   4.75170   493954.06
3761758.47   4.83826
         493931.76   3761757.45   4.54760   493915.54
3761754.92   4.36190
         493903.38   3761754.41   4.22160   493888.68
3761754.41   4.05680
         493872.97   3761753.91   3.89273   493851.68
3761754.41   3.67926
         493835.46   3761751.88   3.54155   493818.73
3761751.37   3.39924
         493742.20   3761651.01   3.02410   493742.20
3761665.21   3.00066
         493742.20   3761680.41   2.97301   493746.25
3761695.11   2.97863
         493750.31   3761708.80   2.98344   493754.87
3761721.47   2.99473
         493757.91   3761732.62   2.99289   493772.10
3761750.36   3.04275
         493760.44   3761749.34   2.96466   493749.29
3761748.84   2.89103
         493730.54   3761748.84   2.76978   493705.70
3761747.32   2.62158
         493712.80   3761770.63   2.59310   493739.66
3761767.59   2.76584

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                             *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                 INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
493757.40	3761769.11	2.87509	493780.21	3761771.14	3.02290
493801.50	3761770.12	3.18098	493830.90	3761773.17	3.39989
493850.66	3761773.67	3.57449	493872.46	3761773.67	3.78660
493893.75	3761776.71	3.99208	493908.45	3761775.70	4.15912
493926.19	3761779.75	4.33740	493937.84	3761778.74	4.48347
493952.54	3761780.26	4.65763	493967.75	3761779.75	4.86370
493975.35	3761783.81	4.93549	493989.54	3761780.26	5.17109
494000.19	3761781.78	5.31885	494014.88	3761785.33	5.51477
494027.05	3761785.84	5.70939	494049.35	3761786.34	6.09061
494066.08	3761786.34	6.40301	494171.35	3761821.06	8.01920
494176.48	3761840.83	7.60243	494171.35	3761886.24	6.44909
495005.95	3761336.41	5.61895	495145.95	3761336.41	3.59851
495165.95	3761336.41	3.80581	495185.95	3761336.41	3.82659
495205.95	3761336.41	3.69581	495225.95	3761336.41	3.56600
495245.95	3761336.41	3.44209	495265.95	3761336.41	3.33230
495285.95	3761336.41	3.24141	495305.95	3761336.41	3.09307
495325.95	3761336.41	2.95566	495345.95	3761336.41	2.85283
495365.95	3761336.41	2.72934	495385.95	3761336.41	2.62714
495405.95	3761336.41	2.54467	495005.95	3761356.41	5.81938
495025.95	3761356.41	5.54645	495045.95	3761356.41	5.30212
495065.95	3761356.41	5.08156	495085.95	3761356.41	4.83446
495105.95	3761356.41	4.47952	495125.95	3761356.41	4.28195
495145.95	3761356.41	4.23928	495165.95	3761356.41	4.08866

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         495185.95    3761356.41        3.93937                      495205.95
3761356.41        3.79613
         495225.95    3761356.41        3.66338                      495245.95
3761356.41        3.53927
         495265.95    3761356.41        3.41983                      495285.95
3761356.41        3.28145
         495305.95    3761356.41        3.12704                      495325.95
3761356.41        2.99813
         495345.95    3761356.41        2.89507                      495365.95
3761356.41        2.77730
         495385.95    3761356.41        2.67187                      495405.95
3761356.41        2.57754
         495425.95    3761356.41        2.48940                      495445.95
3761356.41        2.39832
         495005.95    3761376.41        6.00660                      495025.95
3761376.41        5.71103
         495045.95    3761376.41        5.44093                      495065.95
3761376.41        5.19839
         495085.95    3761376.41        4.98993                      495105.95
3761376.41        4.76654
         495125.95    3761376.41        4.55902                      495145.95
3761376.41        4.37495
         495165.95    3761376.41        4.20056                      495185.95
3761376.41        4.03539
         495205.95    3761376.41        3.88221                      495225.95
3761376.41        3.74231
         495245.95    3761376.41        3.60503                      495265.95
3761376.41        3.46914
         495285.95    3761376.41        3.30392                      495305.95
3761376.41        3.15579
         495325.95    3761376.41        3.03465                      495345.95
3761376.41        2.92752
         495365.95    3761376.41        2.81700                      495385.95
3761376.41        2.71015
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:23:50

                                   PAGE  25
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
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L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
495405.95	3761376.41	2.60866	495425.95	3761376.41	2.50895
495445.95	3761376.41	2.40429	495465.95	3761376.41	2.31473
495485.95	3761376.41	2.24603	494985.95	3761396.41	6.50346
495005.95	3761396.41	6.16273	495025.95	3761396.41	5.85358
495045.95	3761396.41	5.56624	495065.95	3761396.41	5.30324
495085.95	3761396.41	5.08058	495105.95	3761396.41	4.87217
495125.95	3761396.41	4.66182	495145.95	3761396.41	4.46589
495165.95	3761396.41	4.28223	495185.95	3761396.41	4.11026
495205.95	3761396.41	3.94877	495225.95	3761396.41	3.79228
495245.95	3761396.41	3.63071	495265.95	3761396.41	3.48009
495285.95	3761396.41	3.32712	495305.95	3761396.41	3.18924
495325.95	3761396.41	3.06220	495345.95	3761396.41	2.94077
495365.95	3761396.41	2.83018	495385.95	3761396.41	2.72433
495405.95	3761396.41	2.62246	495425.95	3761396.41	2.52230
495445.95	3761396.41	2.42003	495465.95	3761396.41	2.33296
495485.95	3761396.41	2.25919	495505.95	3761396.41	2.20531
494965.95	3761416.41	7.02284	494985.95	3761416.41	6.64072
495005.95	3761416.41	6.28963	495025.95	3761416.41	5.96781
495045.95	3761416.41	5.66676	495065.95		

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3761416.41        5.38722
         495085.95    3761416.41        5.14173                        495105.95
3761416.41        4.93203
         495125.95    3761416.41        4.72118                        495145.95
3761416.41        4.51914
         495165.95    3761416.41        4.33050                        495185.95
3761416.41        4.15390
         495205.95    3761416.41        3.98616                        495225.95
3761416.41        3.81687
         495245.95    3761416.41        3.64219                        495265.95
3761416.41        3.49112
         495285.95    3761416.41        3.34912                        495305.95
3761416.41        3.21400
         495325.95    3761416.41        3.07702                        495345.95
3761416.41        2.93547
         495365.95    3761416.41        2.82481                        495385.95
3761416.41        2.72239
         495405.95    3761416.41        2.62375                        495425.95
3761416.41        2.52709
         495445.95    3761416.41        2.43166                        495465.95
3761416.41        2.34669
         495485.95    3761416.41        2.27032                        495505.95
3761416.41        2.20427
         495525.95    3761416.41        2.14998                        494965.95
3761436.41        7.14568
         494985.95    3761436.41        6.74342                        495005.95
3761436.41        6.38119
         495025.95    3761436.41        6.04840                        495045.95
3761436.41        5.73678
         495065.95    3761436.41        5.44471                        495085.95
3761436.41        5.17700
         495105.95    3761436.41        4.94491                        495125.95
3761436.41        4.73537
         495145.95    3761436.41        4.53937                        495165.95
3761436.41        4.35210
         495185.95    3761436.41        4.17152                        495205.95
3761436.41        3.99903
         495225.95    3761436.41        3.82212                        495245.95
3761436.41        3.64442
         495265.95    3761436.41        3.50050                        495285.95
3761436.41        3.36264
         495305.95    3761436.41        3.22605                        495325.95
3761436.41        3.07872
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:23:50

                                  PAGE  26
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
495345.95	3761436.41	2.91660	495365.95	3761436.41	2.80709
495385.95	3761436.41	2.70978	495405.95	3761436.41	2.61570
495425.95	3761436.41	2.52361	495445.95	3761436.41	2.43468
495465.95	3761436.41	2.35277	495485.95	3761436.41	2.27541
495505.95	3761436.41	2.20276	495525.95	3761436.41	2.13566
494845.95	3761456.41	10.75318	494945.95	3761456.41	7.67951
494965.95	3761456.41	7.21612	494985.95	3761456.41	6.80157
495005.95	3761456.41	6.43229	495025.95	3761456.41	6.08898
495045.95	3761456.41	5.76752	495065.95	3761456.41	5.46869
495085.95	3761456.41	5.19884	495105.95	3761456.41	4.95137
495125.95	3761456.41	4.72957	495145.95	3761456.41	4.52893
495165.95	3761456.41	4.34403	495185.95	3761456.41	4.16342
495205.95	3761456.41	3.98876	495225.95	3761456.41	3.80865
495245.95	3761456.41	3.63089	495265.95	3761456.41	3.49117

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         495285.95    3761456.41        3.35439                    495305.95
3761456.41        3.21527
         495325.95    3761456.41        3.06359                    495345.95
3761456.41        2.89867
         495365.95    3761456.41        2.79468                    495385.95
3761456.41        2.70097
         495405.95    3761456.41        2.60773                    495425.95
3761456.41        2.51318
         495445.95    3761456.41        2.41767                    495465.95
3761456.41        2.34152
         495485.95    3761456.41        2.26785                    495505.95
3761456.41        2.19461
         495525.95    3761456.41        2.12254                    494865.95
3761476.41       10.08421
         494885.95    3761476.41        9.38669                    494905.95
3761476.41        8.76586
         494925.95    3761476.41        8.20710                    494945.95
3761476.41        7.69753
         494965.95    3761476.41        7.23310                    494985.95
3761476.41        6.81230
         495005.95    3761476.41        6.43956                    495025.95
3761476.41        6.08883
         495045.95    3761476.41        5.76169                    495065.95
3761476.41        5.45843
         495085.95    3761476.41        5.18592                    495105.95
3761476.41        4.93388
         495125.95    3761476.41        4.70502                    495145.95
3761476.41        4.49891
         495165.95    3761476.41        4.31146                    495185.95
3761476.41        4.12670
         495205.95    3761476.41        3.94966                    495225.95
3761476.41        3.77225
         495245.95    3761476.41        3.60165                    495265.95
3761476.41        3.46310
         495285.95    3761476.41        3.32618                    495305.95
3761476.41        3.18701
         495325.95    3761476.41        3.03811                    495345.95
3761476.41        2.88189
         495365.95    3761476.41        2.78300                    495385.95
3761476.41        2.68969
         495405.95    3761476.41        2.59516                    495425.95
3761476.41        2.49719
         495445.95    3761476.41        2.39480                    495465.95
3761476.41        2.32294
         495485.95    3761476.41        2.25222                    495505.95
3761476.41        2.17954
         495525.95    3761476.41        2.10563                    494865.95
3761496.41       10.06146
         494885.95    3761496.41        9.35750                    494905.95
3761496.41        8.73333
```

                              *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                 INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                 ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         494965.95   3761496.41   7.19330   494985.95
3761496.41   6.77259
         495005.95   3761496.41   6.40012   495025.95
3761496.41   6.04727
         495045.95   3761496.41   5.71736   495065.95
3761496.41   5.41275
         495085.95   3761496.41   5.13738   495105.95
3761496.41   4.89101
         495125.95   3761496.41   4.66124   495145.95
3761496.41   4.44947
         495165.95   3761496.41   4.25600   495185.95
3761496.41   4.06280
         495205.95   3761496.41   3.88302   495225.95
3761496.41   3.71388
         495245.95   3761496.41   3.55707   495265.95
3761496.41   3.41753
         495285.95   3761496.41   3.27918   495305.95
3761496.41   3.14232
         495325.95   3761496.41   3.00209   495345.95

3761496.41 2.86245
495365.95 3761496.41 2.76722 495385.95
3761496.41 2.67269
495405.95 3761496.41 2.57595 495425.95
3761496.41 2.47423
495445.95 3761496.41 2.36504 495465.95
3761496.41 2.29641
495485.95 3761496.41 2.22867 495505.95
3761496.41 2.15773
495525.95 3761496.41 2.08378 494865.95
3761516.41 9.91889
494885.95 3761516.41 9.22173 494905.95
3761516.41 8.61375
494925.95 3761516.41 8.05477 494945.95
3761516.41 7.54612
494965.95 3761516.41 7.08589 494985.95
3761516.41 6.67034
495005.95 3761516.41 6.31090 495025.95
3761516.41 5.96439
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3761516.41 5.33192
495085.95 3761516.41 5.05908 495105.95
3761516.41 4.81702
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3761516.41 3.66235
495245.95 3761516.41 3.50809 495265.95
3761516.41 3.36601
495285.95 3761516.41 3.22811 495305.95
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495325.95 3761516.41 2.96357 495345.95
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3761516.41 2.64231
495405.95 3761516.41 2.54435 495425.95
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495445.95 3761516.41 2.33223 495465.95
3761516.41 2.26473
495485.95 3761516.41 2.19880 495505.95
3761516.41 2.12953
495525.95 3761516.41 2.05639 494865.95
3761536.41 9.67714
494885.95 3761536.41 9.00022 494905.95
3761536.41 8.41711
494925.95 3761536.41 7.87333 494945.95
3761536.41 7.37650
494965.95 3761536.41 6.92625 494985.95

3761536.41   6.52331
         495005.95   3761536.41   6.17651   495025.95
3761536.41   5.83910
         495045.95   3761536.41   5.51686   495065.95
3761536.41   5.21674
         495085.95   3761536.41   4.95276   495105.95
3761536.41   4.71572
         495125.95   3761536.41   4.49343   495145.95
3761536.41   4.28664
         495165.95   3761536.41   4.09672   495185.95
3761536.41   3.91737

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         495205.95   3761536.41   3.74772   495225.95
3761536.41   3.58802
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3761536.41   3.03576
         495325.95   3761536.41   2.91335   495345.95
3761536.41   2.79820
         495365.95   3761536.41   2.69648   495385.95
3761536.41   2.59919

495405.95 3761536.41 2.50236 495425.95
3761536.41 2.40317
495445.95 3761536.41 2.29825 495465.95
3761536.41 2.22775
495485.95 3761536.41 2.16192 495505.95
3761536.41 2.09372
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3761556.41 7.15478
494965.95 3761556.41 6.72251 494985.95
3761556.41 6.33666
495005.95 3761556.41 6.00143 495025.95
3761556.41 5.67429
495045.95 3761556.41 5.36067 495065.95
3761556.41 5.07032
495085.95 3761556.41 4.82177 495105.95
3761556.41 4.58937
495125.95 3761556.41 4.37018 495145.95
3761556.41 4.16706
495165.95 3761556.41 3.98235 495185.95
3761556.41 3.80888
495205.95 3761556.41 3.64607 495225.95
3761556.41 3.49298
495245.95 3761556.41 3.34988 495265.95
3761556.41 3.21625
495285.95 3761556.41 3.08859 495305.95
3761556.41 2.96776
495325.95 3761556.41 2.85293 495345.95
3761556.41 2.74398
495365.95 3761556.41 2.64053 495385.95
3761556.41 2.54425
495405.95 3761556.41 2.45116 495425.95
3761556.41 2.35825
495445.95 3761556.41 2.26272 495465.95
3761556.41 2.18624
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3761556.41 2.05123
495525.95 3761556.41 1.98067 494845.95
3761576.41 9.63971
494865.95 3761576.41 8.95804 494885.95
3761576.41 8.35077
494905.95 3761576.41 7.83130 494925.95
3761576.41 7.34167
494945.95 3761576.41 6.88778 494965.95
3761576.41 6.47675
494985.95 3761576.41 6.11279 495005.95
3761576.41 5.78887

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         495025.95    3761576.41        5.47547                      495045.95
3761576.41        5.17726
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3761576.41        4.67208
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3761576.41        4.23703
         495145.95    3761576.41        4.03890                      495165.95
3761576.41        3.85621
         495185.95    3761576.41        3.68535                      495205.95
3761576.41        3.52523
         495225.95    3761576.41        3.37571                      495245.95
3761576.41        3.23549
         495265.95    3761576.41        3.10569                      495285.95
3761576.41        2.98362
         495305.95    3761576.41        2.87041                      495325.95
3761576.41        2.76367
         495345.95    3761576.41        2.66197                      495365.95
3761576.41        2.56372
         495385.95    3761576.41        2.47203                      495405.95
3761576.41        2.38580
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:23:50

                                  PAGE  29
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         495425.95    3761576.41        2.30237                      495445.95
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3761576.41 2.21638
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3761576.41 2.07146
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494845.95 3761596.41 9.13607 494865.95
3761596.41 8.50907
494885.95 3761596.41 7.94572 494905.95
3761596.41 7.46629
494925.95 3761596.41 7.01230 494945.95
3761596.41 6.58674
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3761596.41 5.86090
495005.95 3761596.41 5.55099 495025.95
3761596.41 5.25400
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3761596.41 4.71757
495085.95 3761596.41 4.50342 495105.95
3761596.41 4.29194
495125.95 3761596.41 4.08948 495145.95
3761596.41 3.89871
495165.95 3761596.41 3.72183 495185.95
3761596.41 3.55666
495205.95 3761596.41 3.40256 495225.95
3761596.41 3.25813
495245.95 3761596.41 3.12299 495265.95
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495285.95 3761596.41 2.88060 495305.95
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495325.95 3761596.41 2.67239 495345.95
3761596.41 2.57641
495365.95 3761596.41 2.48344 495385.95
3761596.41 2.39485
495405.95 3761596.41 2.31269 495425.95
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495445.95 3761596.41 2.15962 495465.95
3761596.41 2.08610
495485.95 3761596.41 2.01749 495505.95
3761596.41 1.94971
495525.95 3761596.41 1.88130 494845.95
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494865.95 3761616.41 8.02330 494885.95
3761616.41 7.50859
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3761616.41 6.65967
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3761616.41   3.28368
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3761616.41   2.78528
         495305.95   3761616.41   2.68048   495325.95
3761616.41   2.58260
         495345.95   3761616.41   2.49043   495365.95
3761616.41   2.40226
         495385.95   3761616.41   2.31476   495405.95
3761616.41   2.23273
         495425.95   3761616.41   2.15778   495445.95
3761616.41   2.09235
         495465.95   3761616.41   2.02388   495485.95
3761616.41   1.95796
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3761616.41   1.82620
         494845.95   3761636.41   8.04425   494865.95
3761636.41   7.52279
         494885.95   3761636.41   7.05704   494905.95
3761636.41   6.66380

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
494925.95	3761636.41	6.28394	494945.95	3761636.41	5.91981
494965.95	3761636.41	5.58910	494985.95	3761636.41	5.30376
495005.95	3761636.41	5.03402	495025.95	3761636.41	4.77799
495045.95	3761636.41	4.53656	495065.95	3761636.41	4.31594
495085.95	3761636.41	4.12724	495105.95	3761636.41	3.94149
495125.95	3761636.41	3.76006	495145.95	3761636.41	3.58835
495165.95	3761636.41	3.43126	495185.95	3761636.41	3.28509
495205.95	3761636.41	3.14929	495225.95	3761636.41	3.02213
495245.95	3761636.41	2.90170	495265.95	3761636.41	2.78828
495285.95	3761636.41	2.68210	495305.95	3761636.41	2.58335
495325.95	3761636.41	2.49144	495345.95	3761636.41	2.40480
495365.95	3761636.41	2.32207	495385.95	3761636.41	2.24057
495405.95	3761636.41	2.15941	495425.95	3761636.41	2.08211
495445.95	3761636.41	2.01424	495465.95	3761636.41	1.95312
495485.95	3761636.41	1.89175	495505.95	3761636.41	1.82902
495525.95	3761636.41	1.76637	494845.95	3761656.41	7.49571
494865.95	3761656.41	7.02552	494885.95	3761656.41	6.60791
494905.95	3761656.41	6.25389	494925.95	3761656.41	5.90443
494945.95	3761656.41	5.57178	494965.95	3761656.41	5.27159
494985.95	3761656.41	5.01393	495005.95	3761656.41	4.76589
495025.95	3761656.41	4.53193	495045.95	3761656.41	4.30969

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3761656.41        3.93018
         495105.95    3761656.41        3.75726                        495125.95
3761656.41        3.58585
         495145.95    3761656.41        3.42377                        495165.95
3761656.41        3.27742
         495185.95    3761656.41        3.14109                        495205.95
3761656.41        3.01477
         495225.95    3761656.41        2.89634                        495245.95
3761656.41        2.78437
         495265.95    3761656.41        2.67875                        495285.95
3761656.41        2.57793
         495305.95    3761656.41        2.48417                        495325.95
3761656.41        2.39654
         495345.95    3761656.41        2.31422                        495365.95
3761656.41        2.23773
         495385.95    3761656.41        2.16264                        495405.95
3761656.41        2.08515
         495425.95    3761656.41        2.00786                        495445.95
3761656.41        1.93584
         495465.95    3761656.41        1.87940                        495485.95
3761656.41        1.82242
         495505.95    3761656.41        1.76359                        495525.95
3761656.41        1.70533
         494845.95    3761676.41        6.96673                        494865.95
3761676.41        6.54490
         494885.95    3761676.41        6.17104                        494905.95
3761676.41        5.85410
         494925.95    3761676.41        5.53261                        494945.95
3761676.41        5.22984
         494965.95    3761676.41        4.95809                        494985.95
3761676.41        4.72462
         495005.95    3761676.41        4.49819                        495025.95
3761676.41        4.28089
         495045.95    3761676.41        4.07699                        495065.95
3761676.41        3.89045
         495085.95    3761676.41        3.73171                        495105.95
3761676.41        3.57189
↟ *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:23:50

                                  PAGE  31
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
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                 L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                 L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                 L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -
         495125.95    3761676.41        3.41448                       495145.95
3761676.41        3.26569
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3761676.41        3.00358
         495205.95    3761676.41        2.88586                       495225.95
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3761676.41        2.38506
         495325.95    3761676.41        2.29924                       495345.95
3761676.41        2.21863
         495365.95    3761676.41        2.14847                       495385.95
3761676.41        2.07989
         495405.95    3761676.41        2.01055                       495425.95
3761676.41        1.93839
         495445.95    3761676.41        1.86050                       495465.95
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3761676.41        1.69755
         495525.95    3761676.41        1.64414                       494845.95
3761696.41        6.46883
         494865.95    3761696.41        6.09376                       494885.95
3761696.41        5.76025
         494905.95    3761696.41        5.47430                       494925.95
3761696.41        5.18322
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3761696.41        4.66043
         494985.95    3761696.41        4.44594                       495005.95
3761696.41        4.23741
         495025.95    3761696.41        4.03498                       495045.95
3761696.41        3.84727
         495065.95    3761696.41        3.67798                       495085.95
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3761696.41        3.53138
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         495145.95    3761696.41        3.10846                     495165.95
3761696.41        2.98465
         495185.95    3761696.41        2.86945                     495205.95
3761696.41        2.75821
         495225.95    3761696.41        2.65203                     495245.95
3761696.41        2.55337
         495265.95    3761696.41        2.46468                     495285.95
3761696.41        2.37623
         495305.95    3761696.41        2.28970                     495325.95
3761696.41        2.20782
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3761696.41        2.06100
         495385.95    3761696.41        1.99543                     495405.95
3761696.41        1.93212
         495425.95    3761696.41        1.86762                     495445.95
3761696.41        1.79651
         495465.95    3761696.41        1.73183                     495485.95
3761696.41        1.67915
         495505.95    3761696.41        1.63151                     495525.95
3761696.41        1.58452
         494845.95    3761716.41        6.01161                     494865.95
3761716.41        5.67659
         494885.95    3761716.41        5.38078                     494905.95
3761716.41        5.12154
         494925.95    3761716.41        4.85749                     494945.95
3761716.41        4.60639
         494965.95    3761716.41        4.37952                     494985.95
3761716.41        4.18188
         495005.95    3761716.41        3.99023                     495025.95
3761716.41        3.80121
         495045.95    3761716.41        3.62844                     495065.95
3761716.41        3.47517
         495085.95    3761716.41        3.33903                     495105.95
3761716.41        3.20114
         495125.95    3761716.41        3.07270                     495145.95
3761716.41        2.95287
         495165.95    3761716.41        2.83996                     495185.95
3761716.41        2.73611
         495205.95    3761716.41        2.63064                     495225.95
3761716.41        2.52774
         495245.95    3761716.41        2.43333                     495265.95
3761716.41        2.35540
         495285.95    3761716.41        2.27621                     495305.95
3761716.41        2.19551
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
495325.95	3761716.41	2.11873	495345.95	3761716.41	2.04814
495365.95	3761716.41	1.97706	495385.95	3761716.41	1.91278
495405.95	3761716.41	1.85385	495425.95	3761716.41	1.79653
495445.95	3761716.41	1.73495	495465.95	3761716.41	1.66501
495485.95	3761716.41	1.61254	495505.95	3761716.41	1.56869
495525.95	3761716.41	1.52666	495545.95	3761716.41	1.48568
494845.95	3761736.41	5.59718	494865.95	3761736.41	5.30010
494885.95	3761736.41	5.03903	494905.95	3761736.41	4.80309
494925.95	3761736.41	4.56062	494945.95	3761736.41	4.32752
494965.95	3761736.41	4.11780	494985.95	3761736.41	3.94018
495005.95	3761736.41	3.76114	495025.95	3761736.41	3.58594
495045.95	3761736.41	3.42710	495065.95	3761736.41	3.28645

```
         495085.95    3761736.41        3.15950                    495105.95
3761736.41        3.03132
         495125.95    3761736.41        2.91080                    495145.95
3761736.41        2.79778
         495165.95    3761736.41        2.69211                    495185.95
3761736.41        2.59803
         495205.95    3761736.41        2.49998                    495225.95
3761736.41        2.40157
         495245.95    3761736.41        2.31052                    495265.95
3761736.41        2.24276
         495285.95    3761736.41        2.17305                    495305.95
3761736.41        2.10087
         495325.95    3761736.41        2.03100                    495345.95
3761736.41        1.96744
         495365.95    3761736.41        1.90024                    495385.95
3761736.41        1.83519
         495405.95    3761736.41        1.77778                    495425.95
3761736.41        1.72600
         495445.95    3761736.41        1.67389                    495465.95
3761736.41        1.60822
         495485.95    3761736.41        1.55609                    495505.95
3761736.41        1.51247
         495525.95    3761736.41        1.47251                    495545.95
3761736.41        1.43241
         494845.95    3761756.41        5.23522                    494865.95
3761756.41        4.96919
         494885.95    3761756.41        4.73079                    494905.95
3761756.41        4.51169
         494925.95    3761756.41        4.29047                    494945.95
3761756.41        4.07941
         494965.95    3761756.41        3.88726                    494985.95
3761756.41        3.72015
         495005.95    3761756.41        3.55465                    495025.95
3761756.41        3.39537
         495045.95    3761756.41        3.24971                    495065.95
3761756.41        3.11863
         495085.95    3761756.41        2.99822                    495105.95
3761756.41        2.87687
         495125.95    3761756.41        2.76220                    495145.95
3761756.41        2.65510
         495165.95    3761756.41        2.55536                    495185.95
3761756.41        2.46932
         495205.95    3761756.41        2.38221                    495225.95
3761756.41        2.29323
         495245.95    3761756.41        2.20896                    495265.95
3761756.41        2.14419
         495285.95    3761756.41        2.07776                    495305.95
3761756.41        2.00980
         495325.95    3761756.41        1.94518                    495345.95
3761756.41        1.88585
```

                              *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                 INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                 ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         495485.95   3761756.41   1.50798   495505.95
3761756.41   1.46569
         495525.95   3761756.41   1.42628   495545.95
3761756.41   1.38611
         495565.95   3761756.41   1.34886   494845.95
3761776.41   4.90436
         494865.95   3761776.41   4.66459   494885.95
3761776.41   4.44489
         494905.95   3761776.41   4.23837   494925.95
3761776.41   4.03871
         494945.95   3761776.41   3.84905   494965.95
3761776.41   3.67327
         494985.95   3761776.41   3.51440   495005.95
3761776.41   3.36098
         495025.95   3761776.41   3.21747   495045.95

```
3761776.41        3.08372
         495065.95    3761776.41        2.96005                    495085.95
3761776.41        2.84597
         495105.95    3761776.41        2.73176                    495125.95
3761776.41        2.62277
         495145.95    3761776.41        2.52096                    495165.95
3761776.41        2.42702
         495185.95    3761776.41        2.34832                    495205.95
3761776.41        2.27181
         495225.95    3761776.41        2.19356                    495245.95
3761776.41        2.11661
         495265.95    3761776.41        2.05253                    495285.95
3761776.41        1.98761
         495305.95    3761776.41        1.92351                    495325.95
3761776.41        1.86284
         495345.95    3761776.41        1.80624                    495365.95
3761776.41        1.74904
         495385.95    3761776.41        1.69338                    495405.95
3761776.41        1.64298
         495425.95    3761776.41        1.59636                    495445.95
3761776.41        1.54972
         495465.95    3761776.41        1.50462                    495485.95
3761776.41        1.46147
         495505.95    3761776.41        1.42083                    495525.95
3761776.41        1.38189
         495545.95    3761776.41        1.34221                    495565.95
3761776.41        1.30216
         494845.95    3761796.41        4.57132                    494865.95
3761796.41        4.34971
         494885.95    3761796.41        4.15040                    494905.95
3761796.41        3.96341
         494925.95    3761796.41        3.78348                    494945.95
3761796.41        3.61354
         494965.95    3761796.41        3.45360                    494985.95
3761796.41        3.30568
         495005.95    3761796.41        3.16528                    495025.95
3761796.41        3.03512
         495045.95    3761796.41        2.91251                    495065.95
3761796.41        2.79743
         495085.95    3761796.41        2.68968                    495105.95
3761796.41        2.58559
         495125.95    3761796.41        2.48549                    495145.95
3761796.41        2.39189
         495165.95    3761796.41        2.30594                    495185.95
3761796.41        2.23316
         495205.95    3761796.41        2.16459                    495225.95
3761796.41        2.09499
         495245.95    3761796.41        2.02540                    495265.95
3761796.41        1.96302
         495285.95    3761796.41        1.90253                    495305.95
```

3761796.41 1.84326
  495325.95 3761796.41 1.78556 495345.95
3761796.41 1.73025
  495365.95 3761796.41 1.67777 495385.95
3761796.41 1.62736
  495405.95 3761796.41 1.58023 495425.95
3761796.41 1.53539
  495445.95 3761796.41 1.49195 495465.95
3761796.41 1.45010
  495485.95 3761796.41 1.40978 495505.95
3761796.41 1.37091
  495525.95 3761796.41 1.33344 495545.95
3761796.41 1.29665
  495565.95 3761796.41 1.25837 494965.95
3761816.41 3.25438

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
494985.95	3761816.41	3.11722	495005.95	3761816.41	2.98888
495025.95	3761816.41	2.86926	495045.95	3761816.41	2.75648
495065.95	3761816.41	2.64995	495085.95	3761816.41	2.54911

```
        495105.95    3761816.41        2.45205                    495125.95
3761816.41        2.35949
        495145.95    3761816.41        2.27329                    495165.95
3761816.41        2.19459
        495185.95    3761816.41        2.12630                    495205.95
3761816.41        2.06116
        495225.95    3761816.41        1.99526                    495245.95
3761816.41        1.93032
        495265.95    3761816.41        1.87119                    495285.95
3761816.41        1.81478
        495305.95    3761816.41        1.76032                    495325.95
3761816.41        1.70713
        495345.95    3761816.41        1.65490                    495365.95
3761816.41        1.60529
        495385.95    3761816.41        1.55919                    495405.95
3761816.41        1.51582
        495425.95    3761816.41        1.47425                    495445.95
3761816.41        1.43391
        495465.95    3761816.41        1.39475                    495485.95
3761816.41        1.35652
        495505.95    3761816.41        1.31921                    495525.95
3761816.41        1.28279
        495545.95    3761816.41        1.24745                    495565.95
3761816.41        1.21178
        495125.95    3761836.41        2.24325                    495145.95
3761836.41        2.16335
        495165.95    3761836.41        2.09127                    495185.95
3761836.41        2.02739
        495205.95    3761836.41        1.96340                    495225.95
3761836.41        1.89911
        495365.95    3761836.41        1.53499                    495385.95
3761836.41        1.49272
        495405.95    3761836.41        1.45318                    495425.95
3761836.41        1.41545
        495445.95    3761836.41        1.37825                    495465.95
3761836.41        1.34117
        495485.95    3761836.41        1.30470                    495505.95
3761836.41        1.26887
        495525.95    3761836.41        1.23345                    495545.95
3761836.41        1.19849
        495565.95    3761836.41        1.16515                    495125.95
3761856.41        2.13656
        495145.95    3761856.41        2.06066                    495165.95
3761856.41        1.99266
        495185.95    3761856.41        1.93555                    495205.95
3761856.41        1.87394
        495225.95    3761856.41        1.81203                    495385.95
3761856.41        1.43384
        495405.95    3761856.41        1.39896                    495425.95
3761856.41        1.36394
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         495445.95    3761856.41        1.32911                      495465.95
3761856.41        1.29319
         495485.95    3761856.41        1.25870                      495505.95
3761856.41        1.22453
         495525.95    3761856.41        1.18974                      495545.95
3761856.41        1.15405
         495565.95    3761856.41        1.11929                      495125.95
3761876.41        2.03912
         495145.95    3761876.41        1.96712                      495165.95
3761876.41        1.90194
         495185.95    3761876.41        1.84841                      495205.95
3761876.41        1.78970
         495225.95    3761876.41        1.73133                      495385.95
3761876.41        1.37959
         495405.95    3761876.41        1.34810                      495425.95
3761876.41        1.31517
         495445.95    3761876.41        1.28233                      495465.95
3761876.41        1.24857
         495485.95    3761876.41        1.21632                      495505.95
3761876.41        1.18410
         495525.95    3761876.41        1.15080                      495545.95
3761876.41        1.11546
         495565.95    3761876.41        1.07995                      495125.95
3761896.41        1.94977
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                      ***       11:23:50

                                PAGE  35
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                             *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                   L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                   L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                   L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                    *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
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Y-COORD (M) CONC

- - - -

```
3761976.41        1.46584
         495225.95    3761976.41        1.42294                        495145.95
3761996.41        1.54374
         495165.95    3761996.41        1.49635                        495185.95
3761996.41        1.45610
         495205.95    3761996.41        1.41221                        495225.95
3761996.41        1.37133
         495145.95    3762016.41        1.48649                        495165.95
3762016.41        1.44211
         495185.95    3762016.41        1.40245                        495205.95
3762016.41        1.36051
         495225.95    3762016.41        1.32121                        495145.95
3762036.41        1.43284
         495165.95    3762036.41        1.39060                        495185.95
3762036.41        1.35110
         495205.95    3762036.41        1.31066                        495225.95
3762036.41        1.27309
         495145.95    3762056.41        1.38321                        495165.95
3762056.41        1.34257
         495185.95    3762056.41        1.30342                        495205.95
3762056.41        1.26428
         495225.95    3762056.41        1.22824                        494031.10
3761757.45        6.10955
         494022.49    3761743.26        6.10806                        494020.46
3761734.14        6.16815
         494013.36    3761724.00        6.14254                        494002.72
3761712.34        6.04988
         493991.57    3761703.22        5.90429                        493980.42
3761692.58        5.77565
         493969.78    3761686.49        5.62003                        493957.61
3761681.43        5.43556
         493943.93    3761673.82        5.23554                        493926.19
3761672.81        4.95742
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                      ***       11:23:50

                                  PAGE  36
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
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, L0000027   , L0000028   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
493913.51	3761671.29	4.77488	493899.83	3761669.77	4.59032
493832.42	3761639.36	3.87087	493822.79	3761647.47	3.75466
493811.13	3761658.11	3.61689	493809.61	3761669.26	3.57821
493817.72	3761682.44	3.62353	493833.43	3761689.53	3.75698
493853.71	3761695.11	3.94780	493871.45	3761693.08	4.15175
493888.17	3761693.08	4.35107	493905.91	3761693.59	4.57634
493920.61	3761694.60	4.77394	493939.36	3761698.15	5.03220
493959.64	3761706.77	5.30256	493975.35	3761717.41	5.49152
493983.46	3761726.03	5.56181	493991.06	3761738.19	5.58588
494001.20	3761754.41	5.60728	493984.47	3761753.40	5.33662
493980.42	3761746.81	5.32866	493970.79	3761734.64	5.27434
493953.56	3761728.06	5.05327	493937.34	3761717.41	4.88325
493921.12	3761715.38	4.66733	493906.93	3761711.33	4.50203
493887.16	3761711.33	4.25787	493870.43	3761711.33	4.06648
493857.76	3761710.82	3.93212	493843.06	3761709.81	3.78544
493829.38	3761709.81	3.65298	493806.57	3761701.19	3.47066
493799.47	3761683.96	3.45140	493797.45	3761663.18	3.47775
493779.71	3761668.25	3.31181	493775.14	3761687.51	3.23466
493782.75	3761700.18	3.26818	493793.39	3761716.90	3.31169

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         493809.10    3761730.59        3.39945                        493821.27
3761732.11        3.49854
         493843.57    3761730.59        3.70887                        493874.99
3761733.63        4.01374
         493883.61    3761733.12        4.11045                        493904.90
3761734.64        4.34913
         493928.72    3761736.17        4.64296                        493941.39
3761745.80        4.75170
         493954.06    3761758.47        4.83826                        493931.76
3761757.45        4.54760
         493915.54    3761754.92        4.36190                        493903.38
3761754.41        4.22160
         493888.68    3761754.41        4.05680                        493872.97
3761753.91        3.89273
         493851.68    3761754.41        3.67926                        493835.46
3761751.88        3.54155
         493818.73    3761751.37        3.39924                        493742.20
3761651.01        3.02410
         493742.20    3761665.21        3.00066                        493742.20
3761680.41        2.97301
         493746.25    3761695.11        2.97863                        493750.31
3761708.80        2.98344
         493754.87    3761721.47        2.99473                        493757.91
3761732.62        2.99289
         493772.10    3761750.36        3.04275                        493760.44
3761749.34        2.96466
         493749.29    3761748.84        2.89103                        493730.54
3761748.84        2.76978
         493705.70    3761747.32        2.62158                        493712.80
3761770.63        2.59310
         493739.66    3761767.59        2.76584                        493757.40
3761769.11        2.87509
         493780.21    3761771.14        3.02290                        493801.50
3761770.12        3.18098
         493830.90    3761773.17        3.39989                        493850.66
3761773.67        3.57449
         493872.46    3761773.67        3.78660                        493893.75
3761776.71        3.99208
         493908.45    3761775.70        4.15912                        493926.19
3761779.75        4.33740
         493937.84    3761778.74        4.48347                        493952.54
3761780.26        4.65763
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:23:50

                                  PAGE  37
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
493967.75	3761779.75	4.86370	493975.35	3761783.81	4.93549
493989.54	3761780.26	5.17109	494000.19	3761781.78	5.31885
494014.88	3761785.33	5.51477	494027.05	3761785.84	5.70939
494049.35	3761786.34	6.09061	494066.08	3761786.34	6.40301
494171.35	3761821.06	8.01920	494176.48	3761840.83	7.60243
494171.35	3761886.24	6.44909	494831.53	3761814.80	4.47428
494846.31	3761570.20	9.77223	494859.75	3761515.10	10.16581
494839.59	3761451.93	10.96704	494863.63	3761459.20	10.10107
494887.97	3761461.34	9.28324	494935.78	3761472.98	7.95178
494961.89	3761422.37	7.14756	494996.53	3761368.08	6.07892
494991.46	3761326.95	5.70182	495039.84	3761351.14	5.33113
495133.92	3761336.35	3.66794	495229.34	3761325.60	3.48847
495414.80	3761335.01	2.51402	495539.79	3761406.24	2.13154
495545.17	3761697.88	1.53938	495576.08	3761783.89	1.26674
495589.52	3761934.41	0.95292	495387.93		

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3761934.41        1.23218
         495359.70    3761828.24        1.57798                        495237.40
3761820.18        1.93913
         495237.40    3762072.84        1.17485                        495127.20
3762068.81        1.39271
         495124.51    3761818.83        2.35174                        494831.53
3761814.80        4.47428
         494846.31    3761570.20        9.77223                        494859.75
3761515.10       10.16581
         494839.59    3761451.93       10.96704                        494863.63
3761459.20       10.10107
         494887.97    3761461.34        9.28324                        494935.78
3761472.98        7.95178
         494961.89    3761422.37        7.14756                        494996.53
3761368.08        6.07892
         494991.46    3761326.95        5.70182                        495039.84
3761351.14        5.33113
         495133.92    3761336.35        3.66794                        495229.34
3761325.60        3.48847
         495414.80    3761335.01        2.51402                        495539.79
3761406.24        2.13154
         495545.17    3761697.88        1.53938                        495576.08
3761783.89        1.26674
         495589.52    3761934.41        0.95292                        495387.93
3761934.41        1.23218
         495359.70    3761828.24        1.57798                        495237.40
3761820.18        1.93913
         495237.40    3762072.84        1.17485                        495127.20
3762068.81        1.39271
         495124.51    3761818.83        2.35174

 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:23:50

                                   PAGE  38
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
494031.10	3761757.45	61.81469	(23022717)	494022.49	3761743.26	65.21663	(23022717)
494020.46	3761734.14	67.44085	(23022717)	494013.36	3761724.00	68.65112	(23022717)
494002.72	3761712.34	68.67710	(23022717)	493991.57	3761703.22	67.36515	(23022717)
493980.42	3761692.58	65.55658	(23022717)	493969.78	3761686.49	63.17561	(23022717)
493957.61	3761681.43	60.25732	(23022717)	493943.93	3761673.82	56.84205	(23022717)
493926.19	3761672.81	52.85333	(23022717)	493913.51	3761671.29	50.12327	(23022717)
493899.83	3761669.77	47.32557	(23022717)	493832.42	3761639.36	33.10234	(23022717)
493822.79	3761647.47	32.74789	(23022717)	493811.13	3761658.11	32.36845	(23022717)
493809.61	3761669.26	33.20271	(23022717)	493817.72	3761682.44	35.26658	(23022717)
493833.43	3761689.53	37.82682	(23022717)	493853.71	3761695.11	41.02979	(23022717)
493871.45	3761693.08	43.68063	(23022717)	493888.17	3761693.08	46.46045	(23022717)
493905.91	3761693.59	49.63404	(23022717)	493920.61	3761694.60	52.43114	(23022717)
493939.36	3761698.15	56.16035	(23022717)	493959.64	3761706.77	60.00024	(23022717)
493975.35	3761717.41	62.21281	(23022717)	493983.46	3761726.03	62.56384	(23022717)
493991.06	3761738.19	61.66704	(23022717)	494001.20	3761754.41	59.35498	(23022717)
493984.47	3761753.40	57.48803	(23022717)	493980.42	3761746.81	58.31771	(23022717)
493970.79	3761734.64	58.99101	(23022717)	493953.56	3761728.06	56.94862	(23022717)
493937.34	3761717.41	54.99869	(23022717)	493921.12	3761715.38	52.22030	(23022717)
493906.93	3761711.33	49.87728	(23022717)	493887.16	3761711.33	46.61201	(23022717)
493870.43	3761711.33	44.01810	(23022717)	493857.76	3761710.82	42.14332	(23022717)

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        493843.06   3761709.81       40.05511  (23022717)                493829.38
3761709.81       38.22873  (23022717)
        493806.57   3761701.19       35.00313  (23022717)                493799.47
3761683.96       33.11277  (23022717)
        493797.45   3761663.18       31.19841  (23022717)                493779.71
3761668.25       29.63974  (23022717)
        493775.14   3761687.51       30.61059  (23022717)                493782.75
3761700.18       32.21130  (23022717)
        493793.39   3761716.90       34.13782  (23022717)                493809.10
3761730.59       36.23709  (23022717)
        493821.27   3761732.11       37.65746  (23022717)                493843.57
3761730.59       40.37685  (23022717)
        493874.99   3761733.63       44.46561  (23022717)                493883.61
3761733.12       45.67626  (23022717)
        493904.90   3761734.64       48.65760  (23022717)                493928.72
3761736.17       52.10529  (23022717)
        493941.39   3761745.80       52.90915  (23022717)                493954.06
3761758.47       52.68433  (23022717)
        493931.76   3761757.45       50.09464  (23022717)                493915.54
3761754.92       48.38220  (23022717)
        493903.38   3761754.41       46.91708  (23022717)                493888.68
3761754.41       45.11269  (23022717)
        493872.97   3761753.91       43.26194  (23022717)                493851.68
3761754.41       40.76547  (23022717)
        493835.46   3761751.88       39.04124  (23022717)                493818.73
3761751.37       37.23236  (23022717)
        493742.20   3761651.01       24.39672  (23022717)                493742.20
3761665.21       25.62009  (23022717)
        493742.20   3761680.41       26.78444  (23022717)                493746.25
3761695.11       28.15022  (23022717)
        493750.31   3761708.80       29.29734  (23022717)                493754.87
3761721.47       30.29001  (23022717)
        493757.91   3761732.62       30.93185  (23022717)                493772.10
3761750.36       32.54179  (23022717)
        493760.44   3761749.34       31.44839  (23022717)                493749.29
3761748.84       30.43353  (23022717)
        493730.54   3761748.84       28.80421  (23022717)                493705.70
3761747.32       26.74154  (23022717)
        493712.80   3761770.63       27.52646  (23022717)                493739.66
3761767.59       29.65440  (23022717)
1 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
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                                 PAGE  39
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
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INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
493757.40	3761769.11	31.11707	(23022717)	493780.21	3761771.14	33.04813	(23022717)
493801.50	3761770.12	34.99406	(23022717)	493830.90	3761773.17	37.61936	(23022717)
493850.66	3761773.67	39.52310	(23022717)	493872.46	3761773.67	41.70643	(23022717)
493893.75	3761776.71	43.52016	(23022717)	493908.45	3761775.70	45.09194	(23022717)
493926.19	3761779.75	46.21080	(23022717)	493937.84	3761778.74	47.45433	(23022717)
493952.54	3761780.26	48.49171	(23022717)	493967.75	3761779.75	49.89494	(23022717)
493975.35	3761783.81	49.55605	(23022717)	493989.54	3761780.26	51.48566	(23022717)
494000.19	3761781.78	51.80737	(23022717)	494014.88	3761785.33	51.57520	(23022717)
494027.05	3761785.84	51.92444	(23022717)	494049.35	3761786.34	52.30690	(23022717)
494066.08	3761786.34	52.34756	(23022717)	494171.35	3761821.06	88.89296	(22123116)
494176.48	3761840.83	83.76209	(22123116)	494171.35	3761886.24	65.93449	(22123116)
495005.95	3761336.41	62.70522	(18011021)	495145.95	3761336.41	30.44414	(23010216)
495165.95	3761336.41	35.24835	(18010317)	495185.95	3761336.41	38.70670	(18010317)
495205.95	3761336.41	37.73584	(18010317)	495225.95	3761336.41	36.48694	(18010317)
495245.95	3761336.41	35.25345	(23092203)	495265.95	3761336.41	34.91548	(23092203)
495285.95	3761336.41	40.86434	(21122224)	495305.95			

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3761336.41       43.39597  (18052904)
        495325.95   3761336.41       43.96111  (18052904)                495345.95
3761336.41       43.08183  (18052904)
        495365.95   3761336.41       42.81256  (18052904)                495385.95
3761336.41       41.98252  (18052904)
        495405.95   3761336.41       40.85333  (18052904)                495005.95
3761356.41       63.83642  (21122224)
        495025.95   3761356.41       63.01920  (21122224)                495045.95
3761356.41       60.76363  (21122224)
        495065.95   3761356.41       56.59329  (21122224)                495085.95
3761356.41       47.64251  (18010317)
        495105.95   3761356.41       40.85821  (18010317)                495125.95
3761356.41       38.86601  (18010317)
        495145.95   3761356.41       40.91856  (18010317)                495165.95
3761356.41       40.18089  (23092203)
        495185.95   3761356.41       39.46964  (23092203)                495205.95
3761356.41       38.61868  (23092203)
        495225.95   3761356.41       38.00886  (23092203)                495245.95
3761356.41       37.65187  (23092203)
        495265.95   3761356.41       37.35374  (23092203)                495285.95
3761356.41       42.05233  (18052904)
        495305.95   3761356.41       43.45757  (18052904)                495325.95
3761356.41       43.00365  (22101301)
        495345.95   3761356.41       42.46433  (22101301)                495365.95
3761356.41       42.43598  (22101301)
        495385.95   3761356.41       42.12176  (22101301)                495405.95
3761356.41       41.63818  (22101301)
        495425.95   3761356.41       41.10168  (22101301)                495445.95
3761356.41       40.64642  (22101301)
        495005.95   3761376.41       64.83436  (21122224)                495025.95
3761376.41       63.67373  (21122224)
        495045.95   3761376.41       61.79306  (21122224)                495065.95
3761376.41       59.14515  (21122224)
        495085.95   3761376.41       53.42032  (21122224)                495105.95
3761376.41       47.25010  (21122224)
        495125.95   3761376.41       44.65798  (23092203)                495145.95
3761376.41       43.45062  (23092203)
        495165.95   3761376.41       42.11060  (23092203)                495185.95
3761376.41       40.66220  (23092203)
        495205.95   3761376.41       39.48193  (23092203)                495225.95
3761376.41       39.36185  (23120721)
        495245.95   3761376.41       40.29067  (22101301)                495265.95
3761376.41       41.17270  (22101301)
        495285.95   3761376.41       44.41355  (22101301)                495305.95
3761376.41       45.04756  (22101301)
        495325.95   3761376.41       44.60903  (22101301)                495345.95
3761376.41       43.88570  (22101301)
        495365.95   3761376.41       43.40188  (22101301)                495385.95
3761376.41       42.90326  (22101301)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
495405.95	3761376.41	42.34571	(22101301)	495425.95	3761376.41	41.79002	(22101301)
495445.95	3761376.41	41.27707	(22101301)	495465.95	3761376.41	40.57071	(22101301)
495485.95	3761376.41	39.72034	(22101301)	494985.95	3761396.41	65.63209	(21122224)
495005.95	3761396.41	64.25642	(21122224)	495025.95	3761396.41	61.96479	(21122224)
495045.95	3761396.41	59.70963	(21122224)	495065.95	3761396.41	57.72443	(18052904)
495085.95	3761396.41	53.99836	(18052904)	495105.95	3761396.41	48.34363	(23120721)
495125.95	3761396.41	46.80198	(23120721)	495145.95	3761396.41	45.90242	(23120721)
495165.95	3761396.41	44.88237	(23120721)	495185.95	3761396.41	43.71541	(23120721)
495205.95	3761396.41	42.78138	(23120721)	495225.95	3761396.41	43.49766	(22101301)
495245.95	3761396.41	45.13679	(22101301)	495265.95	3761396.41	45.42414	(22101301)
495285.95	3761396.41	45.87401	(22101301)	495305.95	3761396.41	45.59230	(22101301)

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        495325.95   3761396.41       45.04214  (22101301)               495345.95
3761396.41       44.43811  (22101301)
        495365.95   3761396.41       43.66717  (22101301)               495385.95
3761396.41       42.89138  (22101301)
        495405.95   3761396.41       42.15170  (22101007)               495425.95
3761396.41       41.70517  (22101007)
        495445.95   3761396.41       41.30708  (22101007)               495465.95
3761396.41       40.71843  (22101007)
        495485.95   3761396.41       40.02075  (22101007)               495505.95
3761396.41       39.14071  (22101007)
        494965.95   3761416.41       66.66839  (21122224)               494985.95
3761416.41       64.16908  (18052904)
        495005.95   3761416.41       62.76376  (22101301)               495025.95
3761416.41       61.31992  (22101301)
        495045.95   3761416.41       60.18579  (22101301)               495065.95
3761416.41       59.08176  (22101301)
        495085.95   3761416.41       57.06818  (22101301)               495105.95
3761416.41       53.32697  (22101301)
        495125.95   3761416.41       50.85366  (22101301)               495145.95
3761416.41       49.23470  (22101301)
        495165.95   3761416.41       47.65934  (22101301)               495185.95
3761416.41       46.16499  (22101301)
        495205.95   3761416.41       45.18515  (22101301)               495225.95
3761416.41       45.74241  (22101301)
        495245.95   3761416.41       46.67933  (22101301)               495265.95
3761416.41       46.18344  (22101301)
        495285.95   3761416.41       45.66304  (22101007)               495305.95
3761416.41       45.28289  (22101007)
        495325.95   3761416.41       45.12741  (22101007)               495345.95
3761416.41       45.09109  (22101007)
        495365.95   3761416.41       44.37054  (22101007)               495385.95
3761416.41       43.59928  (22101007)
        495405.95   3761416.41       42.86054  (22101007)               495425.95
3761416.41       42.16871  (22101007)
        495445.95   3761416.41       41.51187  (22101007)               495465.95
3761416.41       40.76536  (22101007)
        495485.95   3761416.41       39.97428  (22101007)               495505.95
3761416.41       39.12722  (22101007)
        495525.95   3761416.41       38.19765  (22101007)               494965.95
3761436.41       67.97726  (22101301)
        494985.95   3761436.41       66.43803  (22101301)               495005.95
3761436.41       64.41884  (22101301)
        495025.95   3761436.41       62.47893  (22101301)               495045.95
3761436.41       60.94744  (22101301)
        495065.95   3761436.41       59.67280  (22101301)               495085.95
3761436.41       58.22682  (22101301)
        495105.95   3761436.41       55.98899  (22101301)               495125.95
3761436.41       53.43715  (22101301)
        495145.95   3761436.41       50.91661  (22101301)               495165.95
3761436.41       48.92922  (22101007)
```

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        495345.95   3761436.41   45.27514 (22101007)   495365.95
3761436.41   44.34285 (22101007)
        495385.95   3761436.41   43.33243 (22101007)   495405.95
3761436.41   42.37755 (22101007)
        495425.95   3761436.41   41.48415 (22101007)   495445.95
3761436.41   40.62419 (22101007)
        495465.95   3761436.41   39.74932 (22101007)   495485.95
3761436.41   38.88832 (22101007)
        495505.95   3761436.41   38.10936 (21070905)   495525.95
3761436.41   37.46127 (21070905)
        494845.95   3761456.41   84.67651 (23120721)   494945.95
3761456.41   69.50211 (23120721)
        494965.95   3761456.41   68.01365 (22101301)   494985.95

```
3761456.41       66.09323  (22101007)
        495005.95   3761456.41       63.92072  (22101007)                495025.95
3761456.41       62.16902  (22101007)
        495045.95   3761456.41       60.83362  (22101007)                495065.95
3761456.41       59.62965  (22101007)
        495085.95   3761456.41       58.11011  (22101007)                495105.95
3761456.41       56.53359  (22101007)
        495125.95   3761456.41       54.65008  (22101007)                495145.95
3761456.41       52.54773  (22101007)
        495165.95   3761456.41       50.62198  (21070905)                495185.95
3761456.41       49.23503  (21070905)
        495205.95   3761456.41       48.25837  (21070905)                495225.95
3761456.41       48.15459  (21070905)
        495245.95   3761456.41       48.13925  (21070905)                495265.95
3761456.41       47.05906  (21070905)
        495285.95   3761456.41       46.19533  (21070905)                495305.95
3761456.41       45.64681  (21070905)
        495325.95   3761456.41       45.47241  (21070905)                495345.95
3761456.41       45.30937  (21070905)
        495365.95   3761456.41       44.39988  (21070905)                495385.95
3761456.41       43.47536  (21070905)
        495405.95   3761456.41       42.62524  (21070905)                495425.95
3761456.41       41.85355  (21070905)
        495445.95   3761456.41       41.13198  (21070905)                495465.95
3761456.41       40.32867  (21070905)
        495485.95   3761456.41       39.55862  (21070905)                495505.95
3761456.41       38.82984  (21070905)
        495525.95   3761456.41       38.13144  (21070905)                494865.95
3761476.41       80.68507  (23120721)
        494885.95   3761476.41       78.22101  (18040602)                494905.95
3761476.41       75.63640  (18040602)
        494925.95   3761476.41       73.18064  (18040602)                494945.95
3761476.41       71.07853  (18040602)
        494965.95   3761476.41       69.14176  (18040602)                494985.95
3761476.41       67.20386  (21070905)
        495005.95   3761476.41       64.97717  (21070905)                495025.95
3761476.41       63.35693  (21070905)
        495045.95   3761476.41       62.03091  (21070905)                495065.95
3761476.41       60.79938  (21070905)
        495085.95   3761476.41       59.30461  (21070905)                495105.95
3761476.41       57.87606  (21070905)
        495125.95   3761476.41       56.34122  (21070905)                495145.95
3761476.41       54.64224  (21070905)
        495165.95   3761476.41       52.83721  (21070905)                495185.95
3761476.41       51.52616  (21070905)
        495205.95   3761476.41       50.45738  (21070905)                495225.95
3761476.41       49.83390  (21070905)
        495245.95   3761476.41       49.25150  (21070905)                495265.95
3761476.41       48.04221  (21070905)
        495285.95   3761476.41       47.06430  (21070905)                495305.95
```

3761476.41   46.35856 (21070905)
        495325.95   3761476.41   45.93200 (21070905)   495345.95
3761476.41   45.50048 (21070905)
        495365.95   3761476.41   44.47242 (21070905)   495385.95
3761476.41   43.48046 (21070905)
        495405.95   3761476.41   42.58245 (21070905)   495425.95
3761476.41   41.77720 (21070905)
        495445.95   3761476.41   41.02448 (21070905)   495465.95
3761476.41   40.15274 (21070905)
        495485.95   3761476.41   39.32228 (21070905)   495505.95
3761476.41   38.54547 (21070905)
        495525.95   3761476.41   37.80854 (21070905)   494865.95
3761496.41   83.21915 (23102622)
        494885.95   3761496.41   80.45566 (23102622)   494905.95
3761496.41   77.54893 (23102622)
        494925.95   3761496.41   74.94973 (23102622)   494945.95
3761496.41   72.54805 (23102622)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                   L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                   L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                   L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        494965.95   3761496.41   70.27880 (23102622)   494985.95
3761496.41   68.09548 (23102622)
        495005.95   3761496.41   65.72651 (23102622)   495025.95
3761496.41   63.83482 (23102622)

```
        495045.95   3761496.41       62.17686  (23102622)               495065.95
3761496.41       60.84666  (21070905)
        495085.95   3761496.41       59.35977  (21070905)               495105.95
3761496.41       57.68186  (21070905)
        495125.95   3761496.41       56.13638  (21070905)               495145.95
3761496.41       54.61902  (21070905)
        495165.95   3761496.41       53.06775  (21070905)               495185.95
3761496.41       51.96865  (21070905)
        495205.95   3761496.41       50.87000  (21070905)               495225.95
3761496.41       49.81786  (21070905)
        495245.95   3761496.41       48.75141  (21070905)               495265.95
3761496.41       47.56035  (21070905)
        495285.95   3761496.41       46.56495  (21070905)               495305.95
3761496.41       45.70996  (21070905)
        495325.95   3761496.41       45.00180  (21070905)               495345.95
3761496.41       44.29072  (21070905)
        495365.95   3761496.41       43.22410  (21070905)               495385.95
3761496.41       42.23862  (21070905)
        495405.95   3761496.41       41.35030  (21070905)               495425.95
3761496.41       40.54777  (21070905)
        495445.95   3761496.41       39.77336  (21070905)               495465.95
3761496.41       38.89690  (21070905)
        495485.95   3761496.41       38.05758  (21070905)               495505.95
3761496.41       37.26688  (21070905)
        495525.95   3761496.41       36.51388  (21070905)               494865.95
3761516.41       82.72238  (23102622)
        494885.95   3761516.41       79.83012  (23102622)               494905.95
3761516.41       76.62307  (23102622)
        494925.95   3761516.41       74.00368  (23102622)               494945.95
3761516.41       71.63246  (23102622)
        494965.95   3761516.41       69.36013  (23102622)               494985.95
3761516.41       67.14380  (23102622)
        495005.95   3761516.41       64.63792  (23102622)               495025.95
3761516.41       62.67844  (23102622)
        495045.95   3761516.41       61.01112  (23102622)               495065.95
3761516.41       59.44583  (23102622)
        495085.95   3761516.41       57.79891  (23102622)               495105.95
3761516.41       56.08620  (23102622)
        495125.95   3761516.41       54.48689  (23102622)               495145.95
3761516.41       52.96741  (23102622)
        495165.95   3761516.41       51.49225  (23102622)               495185.95
3761516.41       50.17715  (23102622)
        495205.95   3761516.41       48.92709  (23102622)               495225.95
3761516.41       47.73487  (23102622)
        495245.95   3761516.41       46.58538  (23102622)               495265.95
3761516.41       45.45679  (23102622)
        495285.95   3761516.41       44.43575  (21070905)               495305.95
3761516.41       43.53028  (21070905)
        495325.95   3761516.41       42.67790  (21070905)               495345.95
3761516.41       41.83099  (21070905)
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        495365.95   3761516.41       40.85069  (21070905)                495385.95
3761516.41       39.92834  (21070905)
        495405.95   3761516.41       39.16166  (19022622)                495425.95
3761516.41       38.60210  (19022622)
        495445.95   3761516.41       38.12404  (19022622)                495465.95
3761516.41       37.31804  (19022622)
        495485.95   3761516.41       36.55397  (19022622)                495505.95
3761516.41       35.87469  (19022622)
        495525.95   3761516.41       35.27520  (19022622)                494865.95
3761536.41       78.24883  (23102622)
        494885.95   3761536.41       75.48676  (23102622)                494905.95
3761536.41       72.40629  (23102622)
        494925.95   3761536.41       69.94251  (23102622)                494945.95
3761536.41       67.71942  (23102622)
        494965.95   3761536.41       65.59657  (23102622)                494985.95
3761536.41       63.47893  (23102622)
        495005.95   3761536.41       61.16219  (23102622)                495025.95
3761536.41       59.30555  (23102622)
        495045.95   3761536.41       57.72143  (23102622)                495065.95
3761536.41       56.21821  (23102622)
        495085.95   3761536.41       54.62202  (23102622)                495105.95
3761536.41       53.03426  (23102622)
        495125.95   3761536.41       51.55107  (23102622)                495145.95
3761536.41       50.14167  (23102622)
        495165.95   3761536.41       48.77817  (23102622)                495185.95
3761536.41       47.49657  (23102622)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:23:50

                                  PAGE  43
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                              ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **
```

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
495205.95	3761536.41	46.28670	(23102622)	495225.95	3761536.41	45.13238	(23102622)
495245.95	3761536.41	44.24682	(19022622)	495265.95	3761536.41	43.37892	(19022622)
495285.95	3761536.41	42.60417	(19022622)	495305.95	3761536.41	41.88146	(19022622)
495325.95	3761536.41	41.19028	(19022622)	495345.95	3761536.41	40.49999	(19022622)
495365.95	3761536.41	39.71825	(19022622)	495385.95	3761536.41	38.97697	(19022622)
495405.95	3761536.41	38.31677	(19022622)	495425.95	3761536.41	37.74344	(19022622)
495445.95	3761536.41	37.23647	(19022622)	495465.95	3761536.41	36.49528	(19022622)
495485.95	3761536.41	35.77128	(19022622)	495505.95	3761536.41	35.11414	(19022622)
495525.95	3761536.41	34.52421	(19022622)	494865.95	3761556.41	73.45300	(22120520)
494885.95	3761556.41	71.18346	(22120520)	494905.95	3761556.41	68.31780	(22120520)
494925.95	3761556.41	66.18180	(22120520)	494945.95	3761556.41	64.33828	(22120520)
494965.95	3761556.41	62.52333	(22120520)	494985.95	3761556.41	60.62359	(22120520)
495005.95	3761556.41	58.46499	(22120520)	495025.95	3761556.41	56.85165	(22120520)
495045.95	3761556.41	55.55493	(22120520)	495065.95	3761556.41	54.29178	(22120520)
495085.95	3761556.41	52.81667	(19120820)	495105.95	3761556.41	51.46870	(19120820)
495125.95	3761556.41	50.23690	(19120820)	495145.95	3761556.41	49.04227	(19120820)
495165.95	3761556.41	47.83031	(19120820)	495185.95	3761556.41	46.68720	(19120820)
495205.95	3761556.41	45.60074	(19120820)	495225.95	3761556.41	44.56591	(19120820)
495245.95	3761556.41	43.56484	(19120820)	495265.95	3761556.41	42.59265	(19120820)
495285.95	3761556.41	41.67932	(19120820)	495305.95	3761556.41	40.80341	(19120820)
495325.95	3761556.41	39.96444	(19120820)	495345.95	3761556.41	39.15485	(19120820)
495365.95	3761556.41	38.37054	(19120820)	495385.95	3761556.41	37.59467	(19120820)
495405.95	3761556.41	36.85102	(19120820)	495425.95			

3761556.41 36.14475 (19120820)
  495445.95 3761556.41 35.59522 (23091001) 495465.95
3761556.41 35.01581 (23091001)
  495485.95 3761556.41 34.37957 (23091001) 495505.95
3761556.41 33.80227 (23091001)
  495525.95 3761556.41 33.32537 (23091001) 494845.95
3761576.41 75.13430 (22122923)
  494865.95 3761576.41 72.78072 (22122923) 494885.95
3761576.41 70.42429 (22122923)
  494905.95 3761576.41 67.63481 (22122923) 494925.95
3761576.41 65.40954 (22122923)
  494945.95 3761576.41 63.46534 (22122923) 494965.95
3761576.41 61.78971 (23120117)
  494985.95 3761576.41 60.04671 (23120117) 495005.95
3761576.41 58.14919 (23120117)
  495025.95 3761576.41 56.74356 (23120117) 495045.95
3761576.41 55.59938 (23120117)
  495065.95 3761576.41 54.42575 (23120117) 495085.95
3761576.41 52.82420 (23120117)
  495105.95 3761576.41 51.45563 (23120117) 495125.95
3761576.41 50.25004 (23120117)
  495145.95 3761576.41 49.07635 (23120117) 495165.95
3761576.41 47.89825 (23120117)
  495185.95 3761576.41 46.75746 (23120117) 495205.95
3761576.41 45.65188 (23120117)
  495225.95 3761576.41 44.56918 (23120117) 495245.95
3761576.41 43.59085 (22120817)
  495265.95 3761576.41 42.65322 (22120817) 495285.95
3761576.41 41.74121 (22120817)
  495305.95 3761576.41 40.82810 (22120817) 495325.95
3761576.41 39.94183 (22120817)
  495345.95 3761576.41 39.09343 (22120817) 495365.95
3761576.41 38.29336 (22120817)
  495385.95 3761576.41 37.51058 (22120123) 495405.95
3761576.41 36.84458 (22120123)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
  L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
  L0000014 , L0000015 , L0000016 , L0000017 , L0000018

, L0000019   , L0000020   , L0000021   ,
                L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        495425.95   3761576.41   36.21841 (22120123)   495445.95
3761576.41   35.69711 (22120123)
        495465.95   3761576.41   35.09663 (22120123)   495485.95
3761576.41   34.46486 (22120123)
        495505.95   3761576.41   33.88320 (22120123)   495525.95
3761576.41   33.35862 (22120123)
        494845.95   3761596.41   73.25605 (23020619)   494865.95
3761596.41   71.48678 (23020619)
        494885.95   3761596.41   69.70786 (23020619)   494905.95
3761596.41   67.21795 (23020619)
        494925.95   3761596.41   65.33399 (23020619)   494945.95
3761596.41   63.81023 (23020619)
        494965.95   3761596.41   62.25054 (23020619)   494985.95
3761596.41   60.38984 (23020619)
        495005.95   3761596.41   58.56765 (23020619)   495025.95
3761596.41   57.06159 (23020619)
        495045.95   3761596.41   55.71966 (23020619)   495065.95
3761596.41   54.29933 (23020619)
        495085.95   3761596.41   52.51821 (23020619)   495105.95
3761596.41   51.13551 (23120117)
        495125.95   3761596.41   50.09211 (23120117)   495145.95
3761596.41   49.09855 (23120117)
        495165.95   3761596.41   48.09734 (23120117)   495185.95
3761596.41   47.10792 (23120117)
        495205.95   3761596.41   46.12657 (23120117)   495225.95
3761596.41   45.16119 (23120117)
        495245.95   3761596.41   44.20817 (23120117)   495265.95
3761596.41   43.26152 (23120117)
        495285.95   3761596.41   42.31748 (23120117)   495305.95
3761596.41   41.37380 (23120117)
        495325.95   3761596.41   40.50008 (22120817)   495345.95
3761596.41   39.69485 (22120817)
        495365.95   3761596.41   38.93468 (22120817)   495385.95
3761596.41   38.19546 (22120817)
        495405.95   3761596.41   37.45156 (22120817)   495425.95
3761596.41   36.71627 (22120817)

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        495445.95   3761596.41       36.02391  (22120817)                495465.95
3761596.41       35.35507  (22120817)
        495485.95   3761596.41       34.68684  (22120817)                495505.95
3761596.41       34.04787  (22120817)
        495525.95   3761596.41       33.47104  (22120123)                494845.95
3761616.41       73.24464  (19021522)
        494865.95   3761616.41       70.47843  (19021522)                494885.95
3761616.41       68.00254  (22123004)
        494905.95   3761616.41       65.33195  (22123004)                494925.95
3761616.41       63.18390  (22123004)
        494945.95   3761616.41       61.94400  (23020619)                494965.95
3761616.41       60.79785  (23020619)
        494985.95   3761616.41       59.30622  (23020619)                495005.95
3761616.41       57.91484  (23020619)
        495025.95   3761616.41       56.73533  (23020619)                495045.95
3761616.41       55.60724  (23020619)
        495065.95   3761616.41       54.38248  (23020619)                495085.95
3761616.41       52.83319  (23020619)
        495105.95   3761616.41       51.54931  (23020619)                495125.95
3761616.41       50.36701  (23020619)
        495145.95   3761616.41       49.22820  (23020619)                495165.95
3761616.41       48.09910  (23020619)
        495185.95   3761616.41       46.95349  (23020619)                495205.95
3761616.41       45.82627  (23020619)
        495225.95   3761616.41       44.70874  (23020619)                495245.95
3761616.41       43.61146  (23020619)
        495265.95   3761616.41       42.75435  (19021524)                495285.95
3761616.41       41.92430  (23120117)
        495305.95   3761616.41       41.12309  (23120117)                495325.95
3761616.41       40.32644  (23120117)
        495345.95   3761616.41       39.54192  (23120117)                495365.95
3761616.41       38.77912  (23120117)
        495385.95   3761616.41       38.05412  (23120117)                495405.95
3761616.41       37.33122  (23120117)
        495425.95   3761616.41       36.65992  (22120817)                495445.95
3761616.41       35.97800  (22120817)
        495465.95   3761616.41       35.36154  (22120817)                495485.95
3761616.41       34.76026  (22120817)
        495505.95   3761616.41       34.18618  (22120817)                495525.95
3761616.41       33.63253  (22120817)
        494845.95   3761636.41       74.08822  (21021918)                494865.95
3761636.41       71.76901  (21021918)
        494885.95   3761636.41       69.20697  (21021918)                494905.95
3761636.41       65.98223  (21021918)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:23:50
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
494925.95	3761636.41	63.32595	(22011802)	494945.95	3761636.41	61.67961	(22123004)
494965.95	3761636.41	60.32272	(22123004)	494985.95	3761636.41	58.53730	(22123004)
495005.95	3761636.41	57.02180	(23123019)	495025.95	3761636.41	55.66043	(23123019)
495045.95	3761636.41	54.63119	(23121820)	495065.95	3761636.41	53.70284	(23121820)
495085.95	3761636.41	52.39662	(23121820)	495105.95	3761636.41	51.32115	(23121820)
495125.95	3761636.41	50.40944	(23121820)	495145.95	3761636.41	49.51323	(23121820)
495165.95	3761636.41	48.52469	(23121820)	495185.95	3761636.41	47.50654	(23121820)
495205.95	3761636.41	46.46078	(23121820)	495225.95	3761636.41	45.40925	(23121820)
495245.95	3761636.41	44.37325	(23121820)	495265.95	3761636.41	43.34113	(23121820)
495285.95	3761636.41	42.30474	(23121820)	495305.95	3761636.41	41.25941	(23121820)
495325.95	3761636.41	40.27374	(23020619)	495345.95	3761636.41	39.34587	(23020619)
495365.95	3761636.41	38.43717	(23020619)	495385.95	3761636.41	37.69746	(19021524)
495405.95	3761636.41	37.06084	(19021524)	495425.95	3761636.41	36.42183	(19021524)
495445.95	3761636.41	35.75194	(19021524)	495465.95			

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3761636.41       35.07371  (19021524)
        495485.95   3761636.41       34.42265  (19021524)                495505.95
3761636.41       33.79726  (19021524)
        495525.95   3761636.41       33.25043  (22122918)                494845.95
3761656.41       74.14476  (22021918)
        494865.95   3761656.41       71.44884  (22021918)                494885.95
3761656.41       69.44742  (21021918)
        494905.95   3761656.41       66.91366  (21021918)                494925.95
3761656.41       64.87510  (21021918)
        494945.95   3761656.41       62.99934  (21021918)                494965.95
3761656.41       60.92958  (21021918)
        494985.95   3761656.41       58.48885  (21021918)                495005.95
3761656.41       56.43924  (22011802)
        495025.95   3761656.41       55.18225  (22123004)                495045.95
3761656.41       54.22004  (23123019)
        495065.95   3761656.41       53.17152  (23123019)                495085.95
3761656.41       51.78653  (23123019)
        495105.95   3761656.41       50.58556  (23123019)                495125.95
3761656.41       49.54608  (23123019)
        495145.95   3761656.41       48.74527  (23121820)                495165.95
3761656.41       47.99263  (23121820)
        495185.95   3761656.41       47.19879  (23121820)                495205.95
3761656.41       46.35849  (23121820)
        495225.95   3761656.41       45.50034  (23121820)                495245.95
3761656.41       44.64002  (23121820)
        495265.95   3761656.41       43.77312  (23121820)                495285.95
3761656.41       42.91490  (23121820)
        495305.95   3761656.41       42.03219  (23121820)                495325.95
3761656.41       41.13568  (23121820)
        495345.95   3761656.41       40.23451  (23121820)                495365.95
3761656.41       39.32319  (23121820)
        495385.95   3761656.41       38.44416  (23121820)                495405.95
3761656.41       37.62122  (23121820)
        495425.95   3761656.41       36.81411  (23121820)                495445.95
3761656.41       35.98420  (23121820)
        495465.95   3761656.41       35.09722  (23121820)                495485.95
3761656.41       34.24004  (23121820)
        495505.95   3761656.41       33.48223  (19021524)                495525.95
3761656.41       33.00593  (22122918)
        494845.95   3761676.41       72.82129  (22021918)                494865.95
3761676.41       71.04984  (22021918)
        494885.95   3761676.41       68.91354  (22021918)                494905.95
3761676.41       66.27633  (22021918)
        494925.95   3761676.41       64.32044  (21021918)                494945.95
3761676.41       63.05534  (21021918)
        494965.95   3761676.41       61.52052  (21021918)                494985.95
3761676.41       59.58590  (21021918)
        495005.95   3761676.41       57.78337  (21021918)                495025.95
3761676.41       56.05174  (21021918)
        495045.95   3761676.41       54.29575  (21021918)                495065.95
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                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                   INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_10   IN MICROGRAMS/M**3
                 **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        495125.95   3761676.41   49.18140 (23123019)   495145.95
3761676.41   48.38097 (23123019)
        495165.95   3761676.41   47.47730 (23123019)   495185.95
3761676.41   46.51251 (23123019)
        495205.95   3761676.41   45.51174 (23123019)   495225.95
3761676.41   44.48306 (23123019)
        495245.95   3761676.41   43.75822 (21121817)   495265.95
3761676.41   43.05119 (21121817)
        495285.95   3761676.41   42.37461 (21121817)   495305.95
3761676.41   41.70670 (23121820)
        495325.95   3761676.41   41.02920 (23121820)   495345.95
3761676.41   40.32834 (23121820)
        495365.95   3761676.41   39.55615 (23121820)   495385.95
3761676.41   38.80159 (23121820)
        495405.95   3761676.41   38.08181 (23121820)   495425.95
3761676.41   37.40132 (23121820)
        495445.95   3761676.41   36.75118 (23121820)   495465.95
3761676.41   35.98907 (23121820)

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        495485.95   3761676.41       35.22536  (23121820)               495505.95
3761676.41       34.47542  (23121820)
        495525.95   3761676.41       33.73692  (23121820)               494845.95
3761696.41       71.59128  (23123018)
        494865.95   3761696.41       69.55839  (19120407)               494885.95
3761696.41       67.17286  (23021318)
        494905.95   3761696.41       65.17860  (22021918)               494925.95
3761696.41       63.66641  (22021918)
        494945.95   3761696.41       62.07205  (22021918)               494965.95
3761696.41       60.30214  (18021819)
        494985.95   3761696.41       58.79517  (21021918)               495005.95
3761696.41       57.57575  (21021918)
        495025.95   3761696.41       56.39303  (21021918)               495045.95
3761696.41       55.09144  (21021918)
        495065.95   3761696.41       53.61611  (21021918)               495085.95
3761696.41       51.92012  (21021918)
        495105.95   3761696.41       50.34464  (21021918)               495125.95
3761696.41       48.98517  (21010906)
        495145.95   3761696.41       47.76227  (21010906)               495165.95
3761696.41       46.47625  (21010906)
        495185.95   3761696.41       45.62412  (23123019)               495205.95
3761696.41       44.92638  (23123019)
        495225.95   3761696.41       44.20767  (23123019)               495245.95
3761696.41       43.43376  (23123019)
        495265.95   3761696.41       42.57711  (23123019)               495285.95
3761696.41       41.75607  (23123019)
        495305.95   3761696.41       40.94231  (23123019)               495325.95
3761696.41       40.23855  (21121817)
        495345.95   3761696.41       39.67516  (21121817)               495365.95
3761696.41       39.07573  (21121817)
        495385.95   3761696.41       38.44064  (21121817)               495405.95
3761696.41       37.80259  (21121817)
        495425.95   3761696.41       37.19159  (21121817)               495445.95
3761696.41       36.63635  (21121817)
        495465.95   3761696.41       36.02096  (21121817)               495485.95
3761696.41       35.39884  (23121820)
        495505.95   3761696.41       34.76305  (23121820)               495525.95
3761696.41       34.12963  (23121820)
        494845.95   3761716.41       70.89616  (23123018)               494865.95
3761716.41       69.12254  (23123018)
        494885.95   3761716.41       66.79904  (23123018)               494905.95
3761716.41       64.41170  (19120407)
        494925.95   3761716.41       62.62134  (19120407)               494945.95
3761716.41       61.11129  (23021318)
        494965.95   3761716.41       59.77346  (23021318)               494985.95
3761716.41       58.05492  (23021318)
        495005.95   3761716.41       56.64929  (18021819)               495025.95
3761716.41       55.28603  (18021819)
        495045.95   3761716.41       54.22890  (21021918)               495065.95
3761716.41       53.20544  (21021918)
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        495325.95   3761716.41   39.87109 (23123019)   495345.95
3761716.41   39.19420 (23123019)
        495365.95   3761716.41   38.52474 (23123019)   495385.95
3761716.41   37.80224 (23123019)
        495405.95   3761716.41   37.04602 (23123019)   495425.95
3761716.41   36.50382 (21121817)
        495445.95   3761716.41   36.06700 (21121817)   495465.95
3761716.41   35.66598 (21121817)
        495485.95   3761716.41   35.14535 (21121817)   495505.95

3761716.41 34.58173 (21121817)
495525.95 3761716.41 34.01054 (21121817) 495545.95
3761716.41 33.43586 (21121817)
494845.95 3761736.41 67.88849 (23123018) 494865.95
3761736.41 67.09946 (23123018)
494885.95 3761736.41 65.69217 (23123018) 494905.95
3761736.41 63.85986 (23123018)
494925.95 3761736.41 62.18236 (23123018) 494945.95
3761736.41 60.48687 (19120407)
494965.95 3761736.41 59.05735 (19120407) 494985.95
3761736.41 57.14896 (19120407)
495005.95 3761736.41 56.01729 (23021318) 495025.95
3761736.41 54.92306 (23021318)
495045.95 3761736.41 53.66833 (21020818) 495065.95
3761736.41 52.29301 (18021819)
495085.95 3761736.41 50.87239 (18021819) 495105.95
3761736.41 49.85691 (21021918)
495125.95 3761736.41 49.06237 (21021918) 495145.95
3761736.41 48.16962 (21021918)
495165.95 3761736.41 47.18621 (21021918) 495185.95
3761736.41 46.07526 (21021918)
495205.95 3761736.41 45.00396 (21021918) 495225.95
3761736.41 43.94207 (18021419)
495245.95 3761736.41 43.04238 (21010906) 495265.95
3761736.41 42.00419 (21010906)
495285.95 3761736.41 40.99403 (21010906) 495305.95
3761736.41 40.01689 (21010906)
495325.95 3761736.41 39.02119 (21010906) 495345.95
3761736.41 38.21996 (23123019)
495365.95 3761736.41 37.76819 (23123019) 495385.95
3761736.41 37.28487 (23123019)
495405.95 3761736.41 36.73596 (23123019) 495425.95
3761736.41 36.14387 (23123019)
495445.95 3761736.41 35.54708 (23123019) 495465.95
3761736.41 34.99499 (23123019)
495485.95 3761736.41 34.36282 (23123019) 495505.95
3761736.41 33.73029 (21121817)
495525.95 3761736.41 33.31624 (21121817) 495545.95
3761736.41 32.89451 (21121817)
494845.95 3761756.41 67.44923 (23123020) 494865.95
3761756.41 64.92219 (23122217)
494885.95 3761756.41 62.58505 (23123018) 494905.95
3761756.41 61.80853 (23123018)
494925.95 3761756.41 61.01015 (23123018) 494945.95
3761756.41 59.97430 (23123018)
494965.95 3761756.41 58.55907 (23123018) 494985.95
3761756.41 56.69815 (23123018)
495005.95 3761756.41 55.37065 (19120407) 495025.95
3761756.41 54.04505 (19120407)
495045.95 3761756.41 52.92116 (22022518) 495065.95

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3761756.41       51.80870  (22022518)
        495085.95   3761756.41       50.54090  (21020818)                495105.95
3761756.41       49.52362  (21020818)
        495125.95   3761756.41       48.38407  (21020818)                495145.95
3761756.41       47.35102  (22022020)
        495165.95   3761756.41       46.32623  (22022020)                495185.95
3761756.41       45.42671  (21021918)
        495205.95   3761756.41       44.66625  (21021918)                495225.95
3761756.41       43.89113  (21021918)
        495245.95   3761756.41       43.13227  (18021419)                495265.95
3761756.41       42.15004  (18021419)
        495285.95   3761756.41       41.19430  (18021419)                495305.95
3761756.41       40.26247  (18021419)
        495325.95   3761756.41       39.34181  (21010906)                495345.95
3761756.41       38.52114  (21010906)
        495365.95   3761756.41       37.71423  (21010906)                495385.95
3761756.41       36.98893  (22120717)
        495405.95   3761756.41       36.27074  (22120717)                495425.95
3761756.41       35.49088  (22120717)
        495445.95   3761756.41       34.76682  (23123019)                495465.95
3761756.41       34.36912  (23123019)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:23:50

                                   PAGE  48
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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        495485.95   3761756.41       33.91411  (23123019)               495505.95
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3761756.41       32.38289  (23123019)
        495565.95   3761756.41       31.83697  (23123019)               494845.95
3761776.41       65.79481  (23123020)
        494865.95   3761776.41       64.32393  (23123020)               494885.95
3761776.41       62.33331  (23123020)
        494905.95   3761776.41       60.31328  (23122217)               494925.95
3761776.41       58.33393  (23122217)
        494945.95   3761776.41       57.93934  (23123018)               494965.95
3761776.41       57.30263  (23123018)
        494985.95   3761776.41       56.28059  (23123018)               495005.95
3761776.41       55.07226  (23123018)
        495025.95   3761776.41       53.61874  (23123018)               495045.95
3761776.41       52.25345  (19120407)
        495065.95   3761776.41       51.06071  (19120407)               495085.95
3761776.41       49.87293  (22022518)
        495105.95   3761776.41       49.09155  (22022518)               495125.95
3761776.41       48.16862  (22022518)
        495145.95   3761776.41       47.11500  (21020818)               495165.95
3761776.41       46.15993  (21020818)
        495185.95   3761776.41       44.99361  (22022020)               495205.95
3761776.41       44.08536  (22022020)
        495225.95   3761776.41       43.16777  (22022020)               495245.95
3761776.41       42.21798  (21021918)
        495265.95   3761776.41       41.58562  (18021419)               495285.95
3761776.41       40.97382  (18021419)
        495305.95   3761776.41       40.32867  (18021419)               495325.95
3761776.41       39.61519  (18021419)
        495345.95   3761776.41       38.83032  (18021419)               495365.95
3761776.41       38.03612  (18021419)
        495385.95   3761776.41       37.20499  (18021419)               495405.95
3761776.41       36.30345  (18021419)
        495425.95   3761776.41       35.55980  (21010906)               495445.95
3761776.41       34.96863  (22120717)
        495465.95   3761776.41       34.35688  (22120717)               495485.95
3761776.41       33.71414  (22120717)
        495505.95   3761776.41       33.03839  (22120717)               495525.95
3761776.41       32.34029  (22120717)
        495545.95   3761776.41       31.78545  (23011922)               495565.95
3761776.41       31.37538  (18022421)
        494845.95   3761796.41       62.98624  (23123020)               494865.95
3761796.41       62.66942  (23123020)
        494885.95   3761796.41       61.70060  (23123020)               494905.95
3761796.41       60.27374  (23123020)
        494925.95   3761796.41       58.71764  (23122217)               494945.95
3761796.41       57.17205  (23122217)
        494965.95   3761796.41       55.37927  (23011703)               494985.95
3761796.41       54.64983  (23123018)
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        495005.95   3761796.41       54.12673  (23123018)                495025.95
3761796.41       53.30189  (23123018)
        495045.95   3761796.41       52.22700  (23123018)                495065.95
3761796.41       50.92036  (23123018)
        495085.95   3761796.41       49.46296  (19120407)                495105.95
3761796.41       48.48817  (19120407)
        495125.95   3761796.41       47.60953  (21020618)                495145.95
3761796.41       46.77373  (22022518)
        495165.95   3761796.41       45.94990  (22022518)                495185.95
3761796.41       44.89508  (22022518)
        495205.95   3761796.41       43.78518  (21020818)                495225.95
3761796.41       42.86355  (21020818)
        495245.95   3761796.41       41.99793  (22022020)                495265.95
3761796.41       41.21529  (22022020)
        495285.95   3761796.41       40.36916  (22022020)                495305.95
3761796.41       39.47175  (22022020)
        495325.95   3761796.41       39.01506  (18021419)                495345.95
3761796.41       38.52914  (18021419)
        495365.95   3761796.41       37.97386  (18021419)                495385.95
3761796.41       37.36225  (18021419)
        495405.95   3761796.41       36.68551  (18021419)                495425.95
3761796.41       35.96021  (18021419)
        495445.95   3761796.41       35.19931  (18021419)                495465.95
3761796.41       34.40450  (18021419)
        495485.95   3761796.41       33.58797  (22120717)                495505.95
3761796.41       33.09457  (22120717)
        495525.95   3761796.41       32.57015  (22120717)                495545.95
3761796.41       32.02218  (22120717)
        495565.95   3761796.41       31.46616  (22120717)                494965.95
3761816.41       55.60458  (23122217)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:23:50

                                  PAGE  49
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
494985.95	3761816.41	54.13552	(23122217)	495005.95	3761816.41	52.59676	(23011703)
495025.95	3761816.41	51.55788	(23123018)	495045.95	3761816.41	51.11673	(23123018)
495065.95	3761816.41	50.42071	(23123018)	495085.95	3761816.41	49.49177	(23123018)
495105.95	3761816.41	48.36933	(23123018)	495125.95	3761816.41	47.12482	(21020618)
495145.95	3761816.41	46.56243	(21020618)	495165.95	3761816.41	45.76187	(21020618)
495185.95	3761816.41	44.68400	(21020618)	495205.95	3761816.41	43.55283	(22022518)
495225.95	3761816.41	42.74670	(22022518)	495245.95	3761816.41	41.85683	(22022518)
495265.95	3761816.41	40.91213	(21020818)	495285.95	3761816.41	40.07843	(21020818)
495305.95	3761816.41	39.36385	(22022020)	495325.95	3761816.41	38.69169	(22022020)
495345.95	3761816.41	37.95831	(22022020)	495365.95	3761816.41	37.15394	(22022020)
495385.95	3761816.41	36.75219	(18021419)	495405.95	3761816.41	36.31052	(18021419)
495425.95	3761816.41	35.81196	(18021419)	495445.95	3761816.41	35.26601	(18021419)
495465.95	3761816.41	34.67639	(18021419)	495485.95	3761816.41	34.04846	(18021419)
495505.95	3761816.41	33.38488	(18021419)	495525.95	3761816.41	32.68817	(18021419)
495545.95	3761816.41	31.95963	(18021419)	495565.95	3761816.41	31.40418	(22120717)
495125.95	3761836.41	46.98535	(23123018)	495145.95	3761836.41	45.98508	(23123018)
495165.95	3761836.41	45.02977	(21020618)	495185.95	3761836.41	44.41052	(21020618)
495205.95	3761836.41	43.70071	(21020618)	495225.95	3761836.41	42.91093	(21020618)
495365.95	3761836.41	37.04094	(22022020)	495385.95	3761836.41	36.41837	(22022020)
495405.95	3761836.41	35.72454	(22022020)	495425.95	3761836.41	34.97312	(22022020)
495445.95	3761836.41	34.59139	(18021419)	495465.95			

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3761836.41       34.22712  (18021419)
        495485.95   3761836.41       33.81578  (18021419)                495505.95
3761836.41       33.35939  (18021419)
        495525.95   3761836.41       32.86105  (18021419)                495545.95
3761836.41       32.32166  (18021419)
        495565.95   3761836.41       31.73694  (18021419)                495125.95
3761856.41       45.76533  (23123018)
        495145.95   3761856.41       45.29581  (23123018)                495165.95
3761856.41       44.58401  (23123018)
        495185.95   3761856.41       43.62609  (23123018)                495205.95
3761856.41       42.85867  (21020618)
        495225.95   3761856.41       42.51384  (21020618)                495385.95
3761856.41       35.97885  (21020818)
        495405.95   3761856.41       35.30462  (22022020)                495425.95
3761856.41       34.80188  (22022020)
        495445.95   3761856.41       34.24302  (22022020)                495465.95
3761856.41       33.63958  (22022020)
        495485.95   3761856.41       32.98034  (22022020)                495505.95
3761856.41       32.63130  (18021419)
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3761856.41       32.01868  (18021419)
        495565.95   3761856.41       31.63553  (18021419)                495125.95
3761876.41       45.17548  (23011703)
        495145.95   3761876.41       43.96423  (22022220)                495165.95
3761876.41       43.60978  (22022220)
        495185.95   3761876.41       42.92691  (22022220)                495205.95
3761876.41       42.28747  (23123018)
        495225.95   3761876.41       41.53881  (23123018)                495385.95
3761876.41       36.02869  (21020618)
        495405.95   3761876.41       35.22020  (22022518)                495425.95
3761876.41       34.46009  (22022518)
        495445.95   3761876.41       33.79198  (21020818)                495465.95
3761876.41       33.24525  (22022020)
        495485.95   3761876.41       32.81175  (22022020)                495505.95
3761876.41       32.32309  (22022020)
        495525.95   3761876.41       31.78543  (22022020)                495545.95
3761876.41       31.19835  (22022020)
        495565.95   3761876.41       30.89067  (18021419)                495125.95
3761896.41       45.22200  (23010506)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:23:50

                                 PAGE  50
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                 INCLUDING SOURCE(S):     L0000001    , L0000002
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, L0000003    , L0000004    , L0000005    ,
                L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        495145.95   3761896.41       44.15790  (23011703)               495165.95
3761896.41       43.03080  (23011703)
        495185.95   3761896.41       41.82531  (22022220)               495205.95
3761896.41       41.53702  (22022220)
        495225.95   3761896.41       41.06152  (22022220)               495385.95
3761896.41       36.55456  (21020618)
        495405.95   3761896.41       35.65829  (21020618)               495425.95
3761896.41       34.73844  (21020618)
        495445.95   3761896.41       33.77060  (21020618)               495465.95
3761896.41       33.13189  (22022518)
        495485.95   3761896.41       32.43578  (22022518)               495505.95
3761896.41       31.85856  (21020818)
        495525.95   3761896.41       31.41291  (22022020)               495545.95
3761896.41       31.03984  (22022020)
        495565.95   3761896.41       30.59896  (22022020)               495585.95
3761896.41       30.08935  (22022020)
        495125.95   3761916.41       44.96385  (23010506)               495145.95
3761916.41       44.13503  (23010506)
        495165.95   3761916.41       43.04909  (23010506)               495185.95
3761916.41       41.97071  (23011703)
        495205.95   3761916.41       40.91868  (23011703)               495225.95
3761916.41       39.89441  (22022220)
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3761916.41       35.79657  (21020618)
        495425.95   3761916.41       35.13948  (21020618)               495445.95
3761916.41       34.41843  (21020618)
        495465.95   3761916.41       33.62544  (21020618)               495485.95
3761916.41       32.76564  (21020618)
        495505.95   3761916.41       31.87314  (22022518)               495525.95
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3761916.41       30.10246  (21020818)
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3761936.41       43.78237  (23010506)
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3761936.41       42.91292  (23010506)
        495185.95   3761936.41       41.98793  (23010506)                495205.95
3761936.41       40.94646  (23010506)
        495225.95   3761936.41       40.03298  (23011703)                495145.95
3761956.41       41.98934  (23010506)
        495165.95   3761956.41       41.91797  (23010506)                495185.95
3761956.41       41.47236  (23010506)
        495205.95   3761956.41       40.89767  (23010506)                495225.95
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        495145.95   3761976.41       39.74651  (23010506)                495165.95
3761976.41       40.14641  (23010506)
        495185.95   3761976.41       40.18729  (23010506)                495205.95
3761976.41       40.07735  (23010506)
        495225.95   3761976.41       39.70149  (23010506)                495145.95
3761996.41       39.39446  (19022107)
        495165.95   3761996.41       38.42747  (19022107)                495185.95
3761996.41       38.22351  (23010506)
        495205.95   3761996.41       38.54458  (23010506)                495225.95
3761996.41       38.60868  (23010506)
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3762016.41       38.55873  (19022618)
        495185.95   3762016.41       37.47726  (19022107)                495205.95
3762016.41       36.46510  (19022107)
        495225.95   3762016.41       36.87703  (23010506)                495145.95
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        495165.95   3762036.41       38.69423  (19022618)                495185.95
3762036.41       37.72504  (19022618)
        495205.95   3762036.41       36.59277  (19022107)                495225.95
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3762056.41       38.19770  (19022618)
        495185.95   3762056.41       37.69165  (19022618)                495205.95
3762056.41       36.93712  (19022618)
        495225.95   3762056.41       35.90324  (19022618)                494031.10
3761757.45       61.81469  (23022717)
        494022.49   3761743.26       65.21663  (23022717)                494020.46
3761734.14       67.44085  (23022717)
        494013.36   3761724.00       68.65112  (23022717)                494002.72
3761712.34       68.67710  (23022717)
        493991.57   3761703.22       67.36515  (23022717)                493980.42
3761692.58       65.55658  (23022717)
        493969.78   3761686.49       63.17561  (23022717)                493957.61
3761681.43       60.25732  (23022717)
        493943.93   3761673.82       56.84205  (23022717)                493926.19
3761672.81       52.85333  (23022717)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
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*** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
INCLUDING SOURCE(S):   L0000001   , L0000002 , L0000003   , L0000004   , L0000005   ,
L0000006   , L0000007   , L0000008   , L0000009   , L0000010 , L0000011   , L0000012   , L0000013   ,
L0000014   , L0000015   , L0000016   , L0000017   , L0000018 , L0000019   , L0000020   , L0000021   ,
L0000022   , L0000023   , L0000024   , L0000025   , L0000026 , L0000027   , L0000028   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
493913.51	3761671.29	50.12327	(23022717)	493899.83	3761669.77	47.32557	(23022717)
493832.42	3761639.36	33.10234	(23022717)	493822.79	3761647.47	32.74789	(23022717)
493811.13	3761658.11	32.36845	(23022717)	493809.61	3761669.26	33.20271	(23022717)
493817.72	3761682.44	35.26658	(23022717)	493833.43	3761689.53	37.82682	(23022717)
493853.71	3761695.11	41.02979	(23022717)	493871.45	3761693.08	43.68063	(23022717)
493888.17	3761693.08	46.46045	(23022717)	493905.91	3761693.59	49.63404	(23022717)
493920.61	3761694.60	52.43114	(23022717)	493939.36	3761698.15	56.16035	(23022717)
493959.64	3761706.77	60.00024	(23022717)	493975.35	3761717.41	62.21281	(23022717)
493983.46	3761726.03	62.56384	(23022717)	493991.06	3761738.19	61.66704	(23022717)
494001.20	3761754.41	59.35498	(23022717)	493984.47	3761753.40	57.48803	(23022717)
493980.42	3761746.81	58.31771	(23022717)	493970.79	3761734.64	58.99101	(23022717)
493953.56	3761728.06	56.94862	(23022717)	493937.34			

3761717.41 54.99869 (23022717)
493921.12 3761715.38 52.22030 (23022717) 493906.93
3761711.33 49.87728 (23022717)
493887.16 3761711.33 46.61201 (23022717) 493870.43
3761711.33 44.01810 (23022717)
493857.76 3761710.82 42.14332 (23022717) 493843.06
3761709.81 40.05511 (23022717)
493829.38 3761709.81 38.22873 (23022717) 493806.57
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3761734.64 48.65760 (23022717)
493928.72 3761736.17 52.10529 (23022717) 493941.39
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493954.06 3761758.47 52.68433 (23022717) 493931.76
3761757.45 50.09464 (23022717)
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3761769.11 31.11707 (23022717)
493780.21 3761771.14 33.04813 (23022717) 493801.50
3761770.12 34.99406 (23022717)
493830.90 3761773.17 37.61936 (23022717) 493850.66

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 - - -

```
        494839.59   3761451.93       85.17820  (23120721)               494863.63
3761459.20       81.98202  (23120721)
        494887.97   3761461.34       78.06428  (23120721)               494935.78
3761472.98       71.61332  (18040602)
        494961.89   3761422.37       66.63338  (22101301)               494996.53
3761368.08       63.18534  (21122224)
        494991.46   3761326.95       62.88277  (18011021)               495039.84
3761351.14       61.09980  (21122224)
        495133.92   3761336.35       31.65523  (23010216)               495229.34
3761325.60       36.08817  (18010317)
        495414.80   3761335.01       40.33529  (18052904)               495539.79
3761406.24       37.47811  (22101007)
        495545.17   3761697.88       33.52096  (23121820)               495576.08
3761783.89       30.95162  (23011922)
        495589.52   3761934.41       29.43487  (22022518)               495387.93
3761934.41       35.57062  (21020618)
        495359.70   3761828.24       37.39505  (22022020)               495237.40
3761820.18       42.22646  (22022518)
        495237.40   3762072.84       35.58939  (19022618)               495127.20
3762068.81       38.92131  (21122320)
        495124.51   3761818.83       47.20655  (23123018)               494831.53
3761814.80       61.52015  (19022618)
        494846.31   3761570.20       75.50665  (22122923)               494859.75
3761515.10       83.75450  (23102622)
        494839.59   3761451.93       85.17820  (23120721)               494863.63
3761459.20       81.98202  (23120721)
        494887.97   3761461.34       78.06428  (23120721)               494935.78
3761472.98       71.61332  (18040602)
        494961.89   3761422.37       66.63338  (22101301)               494996.53
3761368.08       63.18534  (21122224)
        494991.46   3761326.95       62.88277  (18011021)               495039.84
3761351.14       61.09980  (21122224)
        495133.92   3761336.35       31.65523  (23010216)               495229.34
3761325.60       36.08817  (18010317)
        495414.80   3761335.01       40.33529  (18052904)               495539.79
3761406.24       37.47811  (22101007)
        495545.17   3761697.88       33.52096  (23121820)               495576.08
3761783.89       30.95162  (23011922)
        495589.52   3761934.41       29.43487  (22022518)               495387.93
3761934.41       35.57062  (21020618)
        495359.70   3761828.24       37.39505  (22022020)               495237.40
3761820.18       42.22646  (22022518)
        495237.40   3762072.84       35.58939  (19022618)               495127.20
3762068.81       38.92131  (21122320)
        495124.51   3761818.83       47.20655  (23123018)

 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:23:50
```

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (43800 HRS) RESULTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3 **

GROUP ID	NETWORK	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
ALL	1ST HIGHEST VALUE IS	10.96704	AT (494839.59, 3761451.93, 736.65, 736.65, 0.00)	DC	
	2ND HIGHEST VALUE IS	10.96704	AT (494839.59, 3761451.93, 736.65, 736.65, 0.00)	DC	
	3RD HIGHEST VALUE IS	10.75318	AT (494845.95, 3761456.41, 736.88, 736.88, 0.00)	DC	
	4TH HIGHEST VALUE IS	10.16581	AT (494859.75, 3761515.10, 737.99, 737.99, 0.00)	DC	
	5TH HIGHEST VALUE IS	10.16581	AT (494859.75, 3761515.10, 737.99, 737.99, 0.00)	DC	
	6TH HIGHEST VALUE IS	10.10107	AT (494863.63, 3761459.20, 737.39, 737.39, 0.00)	DC	
	7TH HIGHEST VALUE IS	10.10107	AT (494863.63, 3761459.20, 737.39, 737.39, 0.00)	DC	
	8TH HIGHEST VALUE IS	10.08421	AT (494865.95, 3761476.41, 737.64, 737.64, 0.00)	DC	
	9TH HIGHEST VALUE IS	10.06146	AT (494865.95, 3761496.41, 737.83, 737.83, 0.00)	DC	
	10TH HIGHEST VALUE IS	9.91889	AT (494865.95, 3761516.41, 738.19, 738.19, 0.00)	DC	

 *** RECEPTOR TYPES: GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	NETWORK	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	88.89296	ON 22123116:	AT (494171.35, 3761821.06, 727.21, 727.21, 0.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** Message Summary : AERMOD Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 4 Warning Message(s)
A Total of 511 Informational Message(s)

A Total of 43800 Hours Were Processed

A Total of 40 Calm Hours Identified

A Total of 471 Missing Hours Identified (1.08 Percent)

******** FATAL ERROR MESSAGES ********
*** NONE ***

```
   ********   WARNING MESSAGES   ********
 ME W186     318       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
 ME W187     318       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 MX W450   17521       CHKDAT: Record Out of Sequence in Meteorological File at:
 21010101
 MX W450   17521       CHKDAT: Record Out of Sequence in Meteorological File at:
1 year gap

    ***********************************
    *** AERMOD Finishes Successfully ***
    ***********************************
```

HARP Project Summary Report 12/18/2024 1:16:00 PM

PROJECT INFORMATION
HARP Version: 22118
Project Name: SANDALWOOD CONSTRUCTION HARP
Project Output Directory: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\Sandalwood\SANDALWOOD CONSTRUCTION HARP
HARP Database: NA

FACILITY INFORMATION
Origin
X (m):0
Y (m):0
Zone:1
No. of Sources:0
No. of Buildings:0

EMISSION INVENTORY
No. of Pollutants:1
No. of Background Pollutants:0

Emissions

ScrID	StkID	ProID	PolID	PolAbbrev	Multi	Annual Ems (lbs/yr)	MaxHr Ems (lbs/hr)	MWAF
ALL	0	0	9901	DieselExhPM	1	97.3	0.04678	1

Background

PolID	PolAbbrev	Conc (ug/m^3)	MWAF

Ground level concentration files (\glc\)

9901MAXHR.txt
9901PER.txt

POLLUTANT HEALTH INFORMATION
Health Database: C:\HARP2\Tables\HEALTH17320.mdb
Health Table Version: HEALTH23279
Official: True

PolID	PolAbbrev	InhCancer	OralCancer	AcuteREL	InhChronicREL	OralChronicREL	InhChronic8HRREL
9901	DieselExhPM	1.1					5

AIR DISPERSION MODELING INFORMATION
Versions used in HARP. All executables were obtained from USEPA's Support Center for Regulatory Atmospheric Modeling website (http://www.epa.gov/scram001/)
AERMOD: 18081
AERMAP: 18081
BPIPPRM: 04274
AERPLOT: 13329

METEOROLOGICAL INFORMATION
Version:
Surface File:
Profile File:
Surface Station:
Upper Station:
On-Site Station:

LIST OF AIR DISPERSION FILES
AERMOD Input File:
AERMOD Output File:
AERMOD Error File:
Plotfile list
_____

LIST OF RISK ASSESSMENT FILES
Health risk analysis files (\hra\)
_____
ResidentialCancerRisk.csv
ResidentialCancerRiskSumByRec.csv
ResidentialGLCList.csv
ResidentialHRAInput.hra
ResidentialNCAcuteRisk.csv
ResidentialNCAcuteRiskSumByRec.csv
ResidentialNCChronicRisk.csv
ResidentialNCChronicRiskSumByRec.csv
ResidentialOutput.txt
ResidentialPathwayRec.csv
ResidentialPolDB.csv

Spatial averaging files (\sa\)
_____

HARP2 - HRACalc (dated 22118) 12/18/2024 1:09:26 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 1.083

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 1.083
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: True
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: RMP

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Warm

****
HOMEGROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden
Fraction leafy: 0.137
Fraction exposed: 0.137
Fraction protected: 0.137
Fraction root: 0.137

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\Sandalwood\SANDALWOOD CONSTRUCTION HARP\hra\ResidentialCancerRisk.csv
Cancer risk total by receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\Sandalwood\SANDALWOOD CONSTRUCTION HARP\hra\ResidentialCancerRiskSumByRec.csv
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\Sandalwood\SANDALWOOD CONSTRUCTION HARP\hra\ResidentialNCChronicRisk.csv
Chronic risk total by receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\Sandalwood\SANDALWOOD CONSTRUCTION HARP\hra\ResidentialNCChronicRiskSumByRec.csv
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\Sandalwood\SANDALWOOD CONSTRUCTION HARP\hra\ResidentialNCAcuteRisk.csv
Acute risk total by receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\Sandalwood\SANDALWOOD CONSTRUCTION HARP\hra\ResidentialNCAcuteRiskSumByRec.csv

HRA ran successfully

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_R	MMILK_RIS	WATER_RIS	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISK	PIG_RISK	CHICKEN_F	EGG_RISK
1	ALL		494031.1	3761757	1.64E-06	1.083YrCar	1.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	ALL		494022.5	3761743	1.64E-06	1.083YrCar	1.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	ALL		494020.5	3761734	1.65E-06	1.083YrCar	1.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	ALL		494013.4	3761724	1.65E-06	1.083YrCar	1.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	ALL		494002.7	3761712	1.62E-06	1.083YrCar	1.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	ALL		493991.6	3761703	1.58E-06	1.083YrCar	1.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	ALL		493980.4	3761693	1.55E-06	1.083YrCar	1.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	ALL		493969.8	3761686	1.51E-06	1.083YrCar	1.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	ALL		493957.6	3761681	1.46E-06	1.083YrCar	1.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	ALL		493943.9	3761674	1.40E-06	1.083YrCar	1.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
11	ALL		493926.2	3761673	1.33E-06	1.083YrCar	1.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12	ALL		493913.5	3761671	1.28E-06	1.083YrCar	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13	ALL		493899.8	3761670	1.23E-06	1.083YrCar	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
14	ALL		493832.4	3761639	1.04E-06	1.083YrCar	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
15	ALL		493822.8	3761647	1.01E-06	1.083YrCar	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16	ALL		493811.1	3761658	9.69E-07	1.083YrCar	9.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17	ALL		493809.6	3761669	9.59E-07	1.083YrCar	9.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
18	ALL		493817.7	3761682	9.71E-07	1.083YrCar	9.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19	ALL		493833.4	3761690	1.01E-06	1.083YrCar	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20	ALL		493853.7	3761695	1.06E-06	1.083YrCar	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21	ALL		493871.5	3761693	1.11E-06	1.083YrCar	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22	ALL		493888.2	3761693	1.17E-06	1.083YrCar	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23	ALL		493905.9	3761694	1.23E-06	1.083YrCar	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
24	ALL		493920.6	3761695	1.28E-06	1.083YrCar	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25	ALL		493939.4	3761698	1.35E-06	1.083YrCar	1.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
26	ALL		493959.6	3761707	1.42E-06	1.083YrCar	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27	ALL		493975.4	3761717	1.47E-06	1.083YrCar	1.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28	ALL		493983.5	3761726	1.49E-06	1.083YrCar	1.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29	ALL		493991.1	3761738	1.50E-06	1.083YrCar	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30	ALL		494001.2	3761754	1.50E-06	1.083YrCar	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31	ALL		493984.5	3761753	1.43E-06	1.083YrCar	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
32	ALL		493980.4	3761747	1.43E-06	1.083YrCar	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33	ALL		493970.8	3761735	1.41E-06	1.083YrCar	1.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34	ALL		493953.6	3761728	1.35E-06	1.083YrCar	1.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35	ALL		493937.3	3761717	1.31E-06	1.083YrCar	1.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36	ALL		493921.1	3761715	1.25E-06	1.083YrCar	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37	ALL		493906.9	3761711	1.21E-06	1.083YrCar	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38	ALL		493887.2	3761711	1.14E-06	1.083YrCar	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39	ALL		493870.4	3761711	1.09E-06	1.083YrCar	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
40	ALL		493857.8	3761711	1.05E-06	1.083YrCar	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41	ALL		493843.1	3761710	1.01E-06	1.083YrCar	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
42	ALL		493829.4	3761710	9.79E-07	1.083YrCar	9.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43	ALL		493806.6	3761701	9.30E-07	1.083YrCar	9.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
44	ALL		493799.5	3761684	9.25E-07	1.083YrCar	9.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
45	ALL		493797.5	3761663	9.32E-07	1.083YrCar	9.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46	ALL		493779.7	3761668	8.87E-07	1.083YrCar	8.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

47	ALL	493775.1	3761688	8.67E-07	1.083YrCar	8.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48	ALL	493782.8	3761700	8.76E-07	1.083YrCar	8.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
49	ALL	493793.4	3761717	8.87E-07	1.083YrCar	8.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
50	ALL	493809.1	3761731	9.11E-07	1.083YrCar	9.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51	ALL	493821.3	3761732	9.38E-07	1.083YrCar	9.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52	ALL	493843.6	3761731	9.94E-07	1.083YrCar	9.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53	ALL	493875	3761734	1.08E-06	1.083YrCar	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54	ALL	493883.6	3761733	1.10E-06	1.083YrCar	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55	ALL	493904.9	3761735	1.17E-06	1.083YrCar	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56	ALL	493928.7	3761736	1.24E-06	1.083YrCar	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57	ALL	493941.4	3761746	1.27E-06	1.083YrCar	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58	ALL	493954.1	3761758	1.30E-06	1.083YrCar	1.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59	ALL	493931.8	3761757	1.22E-06	1.083YrCar	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60	ALL	493915.5	3761755	1.17E-06	1.083YrCar	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
61	ALL	493903.4	3761754	1.13E-06	1.083YrCar	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
62	ALL	493888.7	3761754	1.09E-06	1.083YrCar	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63	ALL	493873	3761754	1.04E-06	1.083YrCar	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64	ALL	493851.7	3761754	9.86E-07	1.083YrCar	9.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65	ALL	493835.5	3761752	9.49E-07	1.083YrCar	9.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66	ALL	493818.7	3761751	9.11E-07	1.083YrCar	9.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67	ALL	493742.2	3761651	8.10E-07	1.083YrCar	8.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
68	ALL	493742.2	3761665	8.04E-07	1.083YrCar	8.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
69	ALL	493742.2	3761680	7.97E-07	1.083YrCar	7.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70	ALL	493746.3	3761695	7.98E-07	1.083YrCar	7.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71	ALL	493750.3	3761709	7.99E-07	1.083YrCar	7.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72	ALL	493754.9	3761721	8.03E-07	1.083YrCar	8.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73	ALL	493757.9	3761733	8.02E-07	1.083YrCar	8.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL	493772.1	3761750	8.15E-07	1.083YrCar	8.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
75	ALL	493760.4	3761749	7.94E-07	1.083YrCar	7.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
76	ALL	493749.3	3761749	7.75E-07	1.083YrCar	7.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
77	ALL	493730.5	3761749	7.42E-07	1.083YrCar	7.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
78	ALL	493705.7	3761747	7.03E-07	1.083YrCar	7.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
79	ALL	493712.8	3761771	6.95E-07	1.083YrCar	6.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
80	ALL	493739.7	3761768	7.41E-07	1.083YrCar	7.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
81	ALL	493757.4	3761769	7.70E-07	1.083YrCar	7.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
82	ALL	493780.2	3761771	8.10E-07	1.083YrCar	8.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
83	ALL	493801.5	3761770	8.52E-07	1.083YrCar	8.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
84	ALL	493830.9	3761773	9.11E-07	1.083YrCar	9.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
85	ALL	493850.7	3761774	9.58E-07	1.083YrCar	9.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
86	ALL	493872.5	3761774	1.01E-06	1.083YrCar	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
87	ALL	493893.8	3761777	1.07E-06	1.083YrCar	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
88	ALL	493908.5	3761776	1.11E-06	1.083YrCar	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
89	ALL	493926.2	3761780	1.16E-06	1.083YrCar	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
90	ALL	493937.8	3761779	1.20E-06	1.083YrCar	1.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
91	ALL	493952.5	3761780	1.25E-06	1.083YrCar	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
92	ALL	493967.8	3761780	1.30E-06	1.083YrCar	1.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
93	ALL	493975.4	3761784	1.32E-06	1.083YrCar	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

94	ALL	493989.5	3761780	1.39E-06	1.083YrCar	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
95	ALL	494000.2	3761782	1.43E-06	1.083YrCar	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
96	ALL	494014.9	3761785	1.48E-06	1.083YrCar	1.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
97	ALL	494027.1	3761786	1.53E-06	1.083YrCar	1.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
98	ALL	494049.4	3761786	1.63E-06	1.083YrCar	1.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
99	ALL	494066.1	3761786	1.72E-06	1.083YrCar	1.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL	494171.4	3761821	2.15E-06	1.083YrCar	2.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
101	ALL	494176.5	3761841	2.04E-06	1.083YrCar	2.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
102	ALL	494171.4	3761886	1.73E-06	1.083YrCar	1.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
103	ALL	495006	3761336	1.51E-06	1.083YrCar	1.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
104	ALL	495146	3761336	9.64E-07	1.083YrCar	9.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
105	ALL	495166	3761336	1.02E-06	1.083YrCar	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
106	ALL	495186	3761336	1.03E-06	1.083YrCar	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
107	ALL	495206	3761336	9.90E-07	1.083YrCar	9.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
108	ALL	495226	3761336	9.56E-07	1.083YrCar	9.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
109	ALL	495246	3761336	9.22E-07	1.083YrCar	9.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
110	ALL	495266	3761336	8.93E-07	1.083YrCar	8.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
111	ALL	495286	3761336	8.69E-07	1.083YrCar	8.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
112	ALL	495306	3761336	8.29E-07	1.083YrCar	8.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
113	ALL	495326	3761336	7.92E-07	1.083YrCar	7.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
114	ALL	495346	3761336	7.64E-07	1.083YrCar	7.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
115	ALL	495366	3761336	7.31E-07	1.083YrCar	7.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
116	ALL	495386	3761336	7.04E-07	1.083YrCar	7.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
117	ALL	495406	3761336	6.82E-07	1.083YrCar	6.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
118	ALL	495006	3761356	1.56E-06	1.083YrCar	1.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
119	ALL	495026	3761356	1.49E-06	1.083YrCar	1.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
120	ALL	495046	3761356	1.42E-06	1.083YrCar	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
121	ALL	495066	3761356	1.36E-06	1.083YrCar	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
122	ALL	495086	3761356	1.30E-06	1.083YrCar	1.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
123	ALL	495106	3761356	1.20E-06	1.083YrCar	1.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
124	ALL	495126	3761356	1.15E-06	1.083YrCar	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
125	ALL	495146	3761356	1.14E-06	1.083YrCar	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
126	ALL	495166	3761356	1.10E-06	1.083YrCar	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
127	ALL	495186	3761356	1.06E-06	1.083YrCar	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
128	ALL	495206	3761356	1.02E-06	1.083YrCar	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
129	ALL	495226	3761356	9.82E-07	1.083YrCar	9.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
130	ALL	495246	3761356	9.48E-07	1.083YrCar	9.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
131	ALL	495266	3761356	9.16E-07	1.083YrCar	9.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
132	ALL	495286	3761356	8.79E-07	1.083YrCar	8.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
133	ALL	495306	3761356	8.38E-07	1.083YrCar	8.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
134	ALL	495326	3761356	8.03E-07	1.083YrCar	8.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
135	ALL	495346	3761356	7.76E-07	1.083YrCar	7.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
136	ALL	495366	3761356	7.44E-07	1.083YrCar	7.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
137	ALL	495386	3761356	7.16E-07	1.083YrCar	7.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
138	ALL	495406	3761356	6.91E-07	1.083YrCar	6.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
139	ALL	495426	3761356	6.67E-07	1.083YrCar	6.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
140	ALL	495446	3761356	6.43E-07	1.083YrCar	6.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

141	ALL	495006	3761376	1.61E-06	1.083YrCar	1.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
142	ALL	495026	3761376	1.53E-06	1.083YrCar	1.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
143	ALL	495046	3761376	1.46E-06	1.083YrCar	1.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
144	ALL	495066	3761376	1.39E-06	1.083YrCar	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
145	ALL	495086	3761376	1.34E-06	1.083YrCar	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
146	ALL	495106	3761376	1.28E-06	1.083YrCar	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
147	ALL	495126	3761376	1.22E-06	1.083YrCar	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
148	ALL	495146	3761376	1.17E-06	1.083YrCar	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
149	ALL	495166	3761376	1.13E-06	1.083YrCar	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
150	ALL	495186	3761376	1.08E-06	1.083YrCar	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
151	ALL	495206	3761376	1.04E-06	1.083YrCar	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
152	ALL	495226	3761376	1.00E-06	1.083YrCar	1.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
153	ALL	495246	3761376	9.66E-07	1.083YrCar	9.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
154	ALL	495266	3761376	9.30E-07	1.083YrCar	9.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
155	ALL	495286	3761376	8.85E-07	1.083YrCar	8.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
156	ALL	495306	3761376	8.46E-07	1.083YrCar	8.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
157	ALL	495326	3761376	8.13E-07	1.083YrCar	8.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
158	ALL	495346	3761376	7.84E-07	1.083YrCar	7.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
159	ALL	495366	3761376	7.55E-07	1.083YrCar	7.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
160	ALL	495386	3761376	7.26E-07	1.083YrCar	7.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
161	ALL	495406	3761376	6.99E-07	1.083YrCar	6.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
162	ALL	495426	3761376	6.72E-07	1.083YrCar	6.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
163	ALL	495446	3761376	6.44E-07	1.083YrCar	6.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
164	ALL	495466	3761376	6.20E-07	1.083YrCar	6.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
165	ALL	495486	3761376	6.02E-07	1.083YrCar	6.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
166	ALL	494986	3761396	1.74E-06	1.083YrCar	1.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
167	ALL	495006	3761396	1.65E-06	1.083YrCar	1.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
168	ALL	495026	3761396	1.57E-06	1.083YrCar	1.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
169	ALL	495046	3761396	1.49E-06	1.083YrCar	1.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
170	ALL	495066	3761396	1.42E-06	1.083YrCar	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
171	ALL	495086	3761396	1.36E-06	1.083YrCar	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
172	ALL	495106	3761396	1.31E-06	1.083YrCar	1.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
173	ALL	495126	3761396	1.25E-06	1.083YrCar	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
174	ALL	495146	3761396	1.20E-06	1.083YrCar	1.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
175	ALL	495166	3761396	1.15E-06	1.083YrCar	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
176	ALL	495186	3761396	1.10E-06	1.083YrCar	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
177	ALL	495206	3761396	1.06E-06	1.083YrCar	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
178	ALL	495226	3761396	1.02E-06	1.083YrCar	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
179	ALL	495246	3761396	9.73E-07	1.083YrCar	9.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
180	ALL	495266	3761396	9.33E-07	1.083YrCar	9.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
181	ALL	495286	3761396	8.92E-07	1.083YrCar	8.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
182	ALL	495306	3761396	8.55E-07	1.083YrCar	8.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
183	ALL	495326	3761396	8.21E-07	1.083YrCar	8.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
184	ALL	495346	3761396	7.88E-07	1.083YrCar	7.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
185	ALL	495366	3761396	7.58E-07	1.083YrCar	7.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
186	ALL	495386	3761396	7.30E-07	1.083YrCar	7.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
187	ALL	495406	3761396	7.03E-07	1.083YrCar	7.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

188	ALL	495426	3761396	6.76E-07	1.083YrCar	6.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
189	ALL	495446	3761396	6.49E-07	1.083YrCar	6.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
190	ALL	495466	3761396	6.25E-07	1.083YrCar	6.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
191	ALL	495486	3761396	6.05E-07	1.083YrCar	6.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
192	ALL	495506	3761396	5.91E-07	1.083YrCar	5.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
193	ALL	494966	3761416	1.88E-06	1.083YrCar	1.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
194	ALL	494986	3761416	1.78E-06	1.083YrCar	1.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
195	ALL	495006	3761416	1.69E-06	1.083YrCar	1.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
196	ALL	495026	3761416	1.60E-06	1.083YrCar	1.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
197	ALL	495046	3761416	1.52E-06	1.083YrCar	1.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
198	ALL	495066	3761416	1.44E-06	1.083YrCar	1.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
199	ALL	495086	3761416	1.38E-06	1.083YrCar	1.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
200	ALL	495106	3761416	1.32E-06	1.083YrCar	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
201	ALL	495126	3761416	1.27E-06	1.083YrCar	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
202	ALL	495146	3761416	1.21E-06	1.083YrCar	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
203	ALL	495166	3761416	1.16E-06	1.083YrCar	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
204	ALL	495186	3761416	1.11E-06	1.083YrCar	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
205	ALL	495206	3761416	1.07E-06	1.083YrCar	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
206	ALL	495226	3761416	1.02E-06	1.083YrCar	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
207	ALL	495246	3761416	9.76E-07	1.083YrCar	9.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
208	ALL	495266	3761416	9.36E-07	1.083YrCar	9.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
209	ALL	495286	3761416	8.97E-07	1.083YrCar	8.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
210	ALL	495306	3761416	8.61E-07	1.083YrCar	8.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
211	ALL	495326	3761416	8.25E-07	1.083YrCar	8.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
212	ALL	495346	3761416	7.87E-07	1.083YrCar	7.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
213	ALL	495366	3761416	7.57E-07	1.083YrCar	7.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
214	ALL	495386	3761416	7.30E-07	1.083YrCar	7.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
215	ALL	495406	3761416	7.03E-07	1.083YrCar	7.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
216	ALL	495426	3761416	6.77E-07	1.083YrCar	6.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
217	ALL	495446	3761416	6.52E-07	1.083YrCar	6.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
218	ALL	495466	3761416	6.29E-07	1.083YrCar	6.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
219	ALL	495486	3761416	6.08E-07	1.083YrCar	6.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
220	ALL	495506	3761416	5.91E-07	1.083YrCar	5.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
221	ALL	495526	3761416	5.76E-07	1.083YrCar	5.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
222	ALL	494966	3761436	1.91E-06	1.083YrCar	1.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
223	ALL	494986	3761436	1.81E-06	1.083YrCar	1.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
224	ALL	495006	3761436	1.71E-06	1.083YrCar	1.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
225	ALL	495026	3761436	1.62E-06	1.083YrCar	1.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
226	ALL	495046	3761436	1.54E-06	1.083YrCar	1.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
227	ALL	495066	3761436	1.46E-06	1.083YrCar	1.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
228	ALL	495086	3761436	1.39E-06	1.083YrCar	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
229	ALL	495106	3761436	1.33E-06	1.083YrCar	1.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
230	ALL	495126	3761436	1.27E-06	1.083YrCar	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
231	ALL	495146	3761436	1.22E-06	1.083YrCar	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
232	ALL	495166	3761436	1.17E-06	1.083YrCar	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
233	ALL	495186	3761436	1.12E-06	1.083YrCar	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
234	ALL	495206	3761436	1.07E-06	1.083YrCar	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

235	ALL	495226	3761436	1.02E-06	1.083YrCar	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
236	ALL	495246	3761436	9.77E-07	1.083YrCar	9.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
237	ALL	495266	3761436	9.38E-07	1.083YrCar	9.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
238	ALL	495286	3761436	9.01E-07	1.083YrCar	9.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
239	ALL	495306	3761436	8.64E-07	1.083YrCar	8.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
240	ALL	495326	3761436	8.25E-07	1.083YrCar	8.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
241	ALL	495346	3761436	7.82E-07	1.083YrCar	7.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
242	ALL	495366	3761436	7.52E-07	1.083YrCar	7.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
243	ALL	495386	3761436	7.26E-07	1.083YrCar	7.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
244	ALL	495406	3761436	7.01E-07	1.083YrCar	7.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
245	ALL	495426	3761436	6.76E-07	1.083YrCar	6.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
246	ALL	495446	3761436	6.52E-07	1.083YrCar	6.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
247	ALL	495466	3761436	6.30E-07	1.083YrCar	6.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
248	ALL	495486	3761436	6.10E-07	1.083YrCar	6.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
249	ALL	495506	3761436	5.90E-07	1.083YrCar	5.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
250	ALL	495526	3761436	5.72E-07	1.083YrCar	5.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
251	ALL	494846	3761456	2.88E-06	1.083YrCar	2.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
252	ALL	494946	3761456	2.06E-06	1.083YrCar	2.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
253	ALL	494966	3761456	1.93E-06	1.083YrCar	1.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
254	ALL	494986	3761456	1.82E-06	1.083YrCar	1.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
255	ALL	495006	3761456	1.72E-06	1.083YrCar	1.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
256	ALL	495026	3761456	1.63E-06	1.083YrCar	1.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
257	ALL	495046	3761456	1.55E-06	1.083YrCar	1.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
258	ALL	495066	3761456	1.47E-06	1.083YrCar	1.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
259	ALL	495086	3761456	1.39E-06	1.083YrCar	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
260	ALL	495106	3761456	1.33E-06	1.083YrCar	1.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
261	ALL	495126	3761456	1.27E-06	1.083YrCar	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
262	ALL	495146	3761456	1.21E-06	1.083YrCar	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
263	ALL	495166	3761456	1.16E-06	1.083YrCar	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
264	ALL	495186	3761456	1.12E-06	1.083YrCar	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
265	ALL	495206	3761456	1.07E-06	1.083YrCar	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
266	ALL	495226	3761456	1.02E-06	1.083YrCar	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
267	ALL	495246	3761456	9.73E-07	1.083YrCar	9.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
268	ALL	495266	3761456	9.36E-07	1.083YrCar	9.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
269	ALL	495286	3761456	8.99E-07	1.083YrCar	8.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
270	ALL	495306	3761456	8.62E-07	1.083YrCar	8.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
271	ALL	495326	3761456	8.21E-07	1.083YrCar	8.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
272	ALL	495346	3761456	7.77E-07	1.083YrCar	7.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
273	ALL	495366	3761456	7.49E-07	1.083YrCar	7.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
274	ALL	495386	3761456	7.24E-07	1.083YrCar	7.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
275	ALL	495406	3761456	6.99E-07	1.083YrCar	6.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
276	ALL	495426	3761456	6.73E-07	1.083YrCar	6.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
277	ALL	495446	3761456	6.48E-07	1.083YrCar	6.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
278	ALL	495466	3761456	6.27E-07	1.083YrCar	6.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
279	ALL	495486	3761456	6.08E-07	1.083YrCar	6.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
280	ALL	495506	3761456	5.88E-07	1.083YrCar	5.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
281	ALL	495526	3761456	5.69E-07	1.083YrCar	5.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

282	ALL	494866	3761476	2.70E-06	1.083YrCar	2.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
283	ALL	494886	3761476	2.52E-06	1.083YrCar	2.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
284	ALL	494906	3761476	2.35E-06	1.083YrCar	2.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
285	ALL	494926	3761476	2.20E-06	1.083YrCar	2.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
286	ALL	494946	3761476	2.06E-06	1.083YrCar	2.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
287	ALL	494966	3761476	1.94E-06	1.083YrCar	1.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
288	ALL	494986	3761476	1.83E-06	1.083YrCar	1.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
289	ALL	495006	3761476	1.73E-06	1.083YrCar	1.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
290	ALL	495026	3761476	1.63E-06	1.083YrCar	1.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
291	ALL	495046	3761476	1.54E-06	1.083YrCar	1.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
292	ALL	495066	3761476	1.46E-06	1.083YrCar	1.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
293	ALL	495086	3761476	1.39E-06	1.083YrCar	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
294	ALL	495106	3761476	1.32E-06	1.083YrCar	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
295	ALL	495126	3761476	1.26E-06	1.083YrCar	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
296	ALL	495146	3761476	1.21E-06	1.083YrCar	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
297	ALL	495166	3761476	1.16E-06	1.083YrCar	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
298	ALL	495186	3761476	1.11E-06	1.083YrCar	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
299	ALL	495206	3761476	1.06E-06	1.083YrCar	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
300	ALL	495226	3761476	1.01E-06	1.083YrCar	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
301	ALL	495246	3761476	9.65E-07	1.083YrCar	9.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
302	ALL	495266	3761476	9.28E-07	1.083YrCar	9.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
303	ALL	495286	3761476	8.91E-07	1.083YrCar	8.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
304	ALL	495306	3761476	8.54E-07	1.083YrCar	8.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
305	ALL	495326	3761476	8.14E-07	1.083YrCar	8.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
306	ALL	495346	3761476	7.72E-07	1.083YrCar	7.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
307	ALL	495366	3761476	7.46E-07	1.083YrCar	7.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
308	ALL	495386	3761476	7.21E-07	1.083YrCar	7.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
309	ALL	495406	3761476	6.95E-07	1.083YrCar	6.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
310	ALL	495426	3761476	6.69E-07	1.083YrCar	6.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
311	ALL	495446	3761476	6.42E-07	1.083YrCar	6.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
312	ALL	495466	3761476	6.22E-07	1.083YrCar	6.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
313	ALL	495486	3761476	6.04E-07	1.083YrCar	6.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
314	ALL	495506	3761476	5.84E-07	1.083YrCar	5.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
315	ALL	495526	3761476	5.64E-07	1.083YrCar	5.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
316	ALL	494866	3761496	2.70E-06	1.083YrCar	2.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
317	ALL	494886	3761496	2.51E-06	1.083YrCar	2.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
318	ALL	494906	3761496	2.34E-06	1.083YrCar	2.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
319	ALL	494926	3761496	2.19E-06	1.083YrCar	2.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
320	ALL	494946	3761496	2.05E-06	1.083YrCar	2.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
321	ALL	494966	3761496	1.93E-06	1.083YrCar	1.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
322	ALL	494986	3761496	1.81E-06	1.083YrCar	1.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
323	ALL	495006	3761496	1.72E-06	1.083YrCar	1.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
324	ALL	495026	3761496	1.62E-06	1.083YrCar	1.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
325	ALL	495046	3761496	1.53E-06	1.083YrCar	1.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
326	ALL	495066	3761496	1.45E-06	1.083YrCar	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
327	ALL	495086	3761496	1.38E-06	1.083YrCar	1.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
328	ALL	495106	3761496	1.31E-06	1.083YrCar	1.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

329	ALL	495126	3761496	1.25E-06	1.083YrCar	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
330	ALL	495146	3761496	1.19E-06	1.083YrCar	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
331	ALL	495166	3761496	1.14E-06	1.083YrCar	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
332	ALL	495186	3761496	1.09E-06	1.083YrCar	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
333	ALL	495206	3761496	1.04E-06	1.083YrCar	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
334	ALL	495226	3761496	9.95E-07	1.083YrCar	9.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
335	ALL	495246	3761496	9.53E-07	1.083YrCar	9.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
336	ALL	495266	3761496	9.16E-07	1.083YrCar	9.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
337	ALL	495286	3761496	8.79E-07	1.083YrCar	8.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
338	ALL	495306	3761496	8.42E-07	1.083YrCar	8.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
339	ALL	495326	3761496	8.04E-07	1.083YrCar	8.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
340	ALL	495346	3761496	7.67E-07	1.083YrCar	7.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
341	ALL	495366	3761496	7.42E-07	1.083YrCar	7.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
342	ALL	495386	3761496	7.16E-07	1.083YrCar	7.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
343	ALL	495406	3761496	6.90E-07	1.083YrCar	6.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
344	ALL	495426	3761496	6.63E-07	1.083YrCar	6.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
345	ALL	495446	3761496	6.34E-07	1.083YrCar	6.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
346	ALL	495466	3761496	6.15E-07	1.083YrCar	6.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
347	ALL	495486	3761496	5.97E-07	1.083YrCar	5.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
348	ALL	495506	3761496	5.78E-07	1.083YrCar	5.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
349	ALL	495526	3761496	5.58E-07	1.083YrCar	5.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
350	ALL	494866	3761516	2.66E-06	1.083YrCar	2.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
351	ALL	494886	3761516	2.47E-06	1.083YrCar	2.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
352	ALL	494906	3761516	2.31E-06	1.083YrCar	2.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
353	ALL	494926	3761516	2.16E-06	1.083YrCar	2.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
354	ALL	494946	3761516	2.02E-06	1.083YrCar	2.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
355	ALL	494966	3761516	1.90E-06	1.083YrCar	1.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
356	ALL	494986	3761516	1.79E-06	1.083YrCar	1.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
357	ALL	495006	3761516	1.69E-06	1.083YrCar	1.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
358	ALL	495026	3761516	1.60E-06	1.083YrCar	1.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
359	ALL	495046	3761516	1.51E-06	1.083YrCar	1.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
360	ALL	495066	3761516	1.43E-06	1.083YrCar	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
361	ALL	495086	3761516	1.36E-06	1.083YrCar	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
362	ALL	495106	3761516	1.29E-06	1.083YrCar	1.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
363	ALL	495126	3761516	1.23E-06	1.083YrCar	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
364	ALL	495146	3761516	1.17E-06	1.083YrCar	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
365	ALL	495166	3761516	1.12E-06	1.083YrCar	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
366	ALL	495186	3761516	1.07E-06	1.083YrCar	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
367	ALL	495206	3761516	1.03E-06	1.083YrCar	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
368	ALL	495226	3761516	9.81E-07	1.083YrCar	9.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
369	ALL	495246	3761516	9.40E-07	1.083YrCar	9.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
370	ALL	495266	3761516	9.02E-07	1.083YrCar	9.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
371	ALL	495286	3761516	8.65E-07	1.083YrCar	8.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
372	ALL	495306	3761516	8.29E-07	1.083YrCar	8.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
373	ALL	495326	3761516	7.94E-07	1.083YrCar	7.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
374	ALL	495346	3761516	7.61E-07	1.083YrCar	7.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
375	ALL	495366	3761516	7.34E-07	1.083YrCar	7.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

376	ALL	495386	3761516	7.08E-07	1.083YrCar	7.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
377	ALL	495406	3761516	6.82E-07	1.083YrCar	6.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
378	ALL	495426	3761516	6.54E-07	1.083YrCar	6.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
379	ALL	495446	3761516	6.25E-07	1.083YrCar	6.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
380	ALL	495466	3761516	6.07E-07	1.083YrCar	6.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
381	ALL	495486	3761516	5.89E-07	1.083YrCar	5.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
382	ALL	495506	3761516	5.71E-07	1.083YrCar	5.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
383	ALL	495526	3761516	5.51E-07	1.083YrCar	5.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
384	ALL	494866	3761536	2.59E-06	1.083YrCar	2.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
385	ALL	494886	3761536	2.41E-06	1.083YrCar	2.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
386	ALL	494906	3761536	2.26E-06	1.083YrCar	2.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
387	ALL	494926	3761536	2.11E-06	1.083YrCar	2.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
388	ALL	494946	3761536	1.98E-06	1.083YrCar	1.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
389	ALL	494966	3761536	1.86E-06	1.083YrCar	1.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
390	ALL	494986	3761536	1.75E-06	1.083YrCar	1.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
391	ALL	495006	3761536	1.66E-06	1.083YrCar	1.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
392	ALL	495026	3761536	1.56E-06	1.083YrCar	1.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
393	ALL	495046	3761536	1.48E-06	1.083YrCar	1.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
394	ALL	495066	3761536	1.40E-06	1.083YrCar	1.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
395	ALL	495086	3761536	1.33E-06	1.083YrCar	1.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
396	ALL	495106	3761536	1.26E-06	1.083YrCar	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
397	ALL	495126	3761536	1.20E-06	1.083YrCar	1.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
398	ALL	495146	3761536	1.15E-06	1.083YrCar	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
399	ALL	495166	3761536	1.10E-06	1.083YrCar	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
400	ALL	495186	3761536	1.05E-06	1.083YrCar	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
401	ALL	495206	3761536	1.00E-06	1.083YrCar	1.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
402	ALL	495226	3761536	9.61E-07	1.083YrCar	9.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
403	ALL	495246	3761536	9.21E-07	1.083YrCar	9.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
404	ALL	495266	3761536	8.84E-07	1.083YrCar	8.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
405	ALL	495286	3761536	8.48E-07	1.083YrCar	8.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
406	ALL	495306	3761536	8.14E-07	1.083YrCar	8.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
407	ALL	495326	3761536	7.81E-07	1.083YrCar	7.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
408	ALL	495346	3761536	7.50E-07	1.083YrCar	7.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
409	ALL	495366	3761536	7.23E-07	1.083YrCar	7.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
410	ALL	495386	3761536	6.97E-07	1.083YrCar	6.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
411	ALL	495406	3761536	6.71E-07	1.083YrCar	6.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
412	ALL	495426	3761536	6.44E-07	1.083YrCar	6.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
413	ALL	495446	3761536	6.16E-07	1.083YrCar	6.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
414	ALL	495466	3761536	5.97E-07	1.083YrCar	5.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
415	ALL	495486	3761536	5.79E-07	1.083YrCar	5.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
416	ALL	495506	3761536	5.61E-07	1.083YrCar	5.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
417	ALL	495526	3761536	5.42E-07	1.083YrCar	5.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
418	ALL	494866	3761556	2.51E-06	1.083YrCar	2.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
419	ALL	494886	3761556	2.33E-06	1.083YrCar	2.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
420	ALL	494906	3761556	2.18E-06	1.083YrCar	2.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
421	ALL	494926	3761556	2.05E-06	1.083YrCar	2.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
422	ALL	494946	3761556	1.92E-06	1.083YrCar	1.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

423	ALL	494966	3761556	1.80E-06	1.083YrCar	1.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
424	ALL	494986	3761556	1.70E-06	1.083YrCar	1.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
425	ALL	495006	3761556	1.61E-06	1.083YrCar	1.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
426	ALL	495026	3761556	1.52E-06	1.083YrCar	1.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
427	ALL	495046	3761556	1.44E-06	1.083YrCar	1.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
428	ALL	495066	3761556	1.36E-06	1.083YrCar	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
429	ALL	495086	3761556	1.29E-06	1.083YrCar	1.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
430	ALL	495106	3761556	1.23E-06	1.083YrCar	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
431	ALL	495126	3761556	1.17E-06	1.083YrCar	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
432	ALL	495146	3761556	1.12E-06	1.083YrCar	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
433	ALL	495166	3761556	1.07E-06	1.083YrCar	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
434	ALL	495186	3761556	1.02E-06	1.083YrCar	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
435	ALL	495206	3761556	9.77E-07	1.083YrCar	9.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
436	ALL	495226	3761556	9.36E-07	1.083YrCar	9.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
437	ALL	495246	3761556	8.98E-07	1.083YrCar	8.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
438	ALL	495266	3761556	8.62E-07	1.083YrCar	8.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
439	ALL	495286	3761556	8.28E-07	1.083YrCar	8.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
440	ALL	495306	3761556	7.95E-07	1.083YrCar	7.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
441	ALL	495326	3761556	7.65E-07	1.083YrCar	7.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
442	ALL	495346	3761556	7.35E-07	1.083YrCar	7.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
443	ALL	495366	3761556	7.08E-07	1.083YrCar	7.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
444	ALL	495386	3761556	6.82E-07	1.083YrCar	6.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
445	ALL	495406	3761556	6.57E-07	1.083YrCar	6.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
446	ALL	495426	3761556	6.32E-07	1.083YrCar	6.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
447	ALL	495446	3761556	6.06E-07	1.083YrCar	6.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
448	ALL	495466	3761556	5.86E-07	1.083YrCar	5.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
449	ALL	495486	3761556	5.68E-07	1.083YrCar	5.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
450	ALL	495506	3761556	5.50E-07	1.083YrCar	5.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
451	ALL	495526	3761556	5.31E-07	1.083YrCar	5.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
452	ALL	494846	3761576	2.58E-06	1.083YrCar	2.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
453	ALL	494866	3761576	2.40E-06	1.083YrCar	2.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
454	ALL	494886	3761576	2.24E-06	1.083YrCar	2.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
455	ALL	494906	3761576	2.10E-06	1.083YrCar	2.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
456	ALL	494926	3761576	1.97E-06	1.083YrCar	1.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
457	ALL	494946	3761576	1.85E-06	1.083YrCar	1.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
458	ALL	494966	3761576	1.74E-06	1.083YrCar	1.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
459	ALL	494986	3761576	1.64E-06	1.083YrCar	1.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
460	ALL	495006	3761576	1.55E-06	1.083YrCar	1.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
461	ALL	495026	3761576	1.47E-06	1.083YrCar	1.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
462	ALL	495046	3761576	1.39E-06	1.083YrCar	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
463	ALL	495066	3761576	1.31E-06	1.083YrCar	1.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
464	ALL	495086	3761576	1.25E-06	1.083YrCar	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
465	ALL	495106	3761576	1.19E-06	1.083YrCar	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
466	ALL	495126	3761576	1.14E-06	1.083YrCar	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
467	ALL	495146	3761576	1.08E-06	1.083YrCar	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
468	ALL	495166	3761576	1.03E-06	1.083YrCar	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
469	ALL	495186	3761576	9.88E-07	1.083YrCar	9.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

470 ALL	495206	3761576	9.45E-07	1.083YrCar	9.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
471 ALL	495226	3761576	9.05E-07	1.083YrCar	9.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
472 ALL	495246	3761576	8.67E-07	1.083YrCar	8.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
473 ALL	495266	3761576	8.32E-07	1.083YrCar	8.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
474 ALL	495286	3761576	8.00E-07	1.083YrCar	8.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
475 ALL	495306	3761576	7.69E-07	1.083YrCar	7.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
476 ALL	495326	3761576	7.41E-07	1.083YrCar	7.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
477 ALL	495346	3761576	7.13E-07	1.083YrCar	7.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
478 ALL	495366	3761576	6.87E-07	1.083YrCar	6.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
479 ALL	495386	3761576	6.62E-07	1.083YrCar	6.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
480 ALL	495406	3761576	6.39E-07	1.083YrCar	6.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
481 ALL	495426	3761576	6.17E-07	1.083YrCar	6.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
482 ALL	495446	3761576	5.94E-07	1.083YrCar	5.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
483 ALL	495466	3761576	5.74E-07	1.083YrCar	5.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
484 ALL	495486	3761576	5.55E-07	1.083YrCar	5.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
485 ALL	495506	3761576	5.37E-07	1.083YrCar	5.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
486 ALL	495526	3761576	5.18E-07	1.083YrCar	5.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
487 ALL	494846	3761596	2.45E-06	1.083YrCar	2.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
488 ALL	494866	3761596	2.28E-06	1.083YrCar	2.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
489 ALL	494886	3761596	2.13E-06	1.083YrCar	2.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
490 ALL	494906	3761596	2.00E-06	1.083YrCar	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
491 ALL	494926	3761596	1.88E-06	1.083YrCar	1.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
492 ALL	494946	3761596	1.77E-06	1.083YrCar	1.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
493 ALL	494966	3761596	1.66E-06	1.083YrCar	1.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
494 ALL	494986	3761596	1.57E-06	1.083YrCar	1.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
495 ALL	495006	3761596	1.49E-06	1.083YrCar	1.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
496 ALL	495026	3761596	1.41E-06	1.083YrCar	1.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
497 ALL	495046	3761596	1.33E-06	1.083YrCar	1.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
498 ALL	495066	3761596	1.26E-06	1.083YrCar	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
499 ALL	495086	3761596	1.21E-06	1.083YrCar	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
500 ALL	495106	3761596	1.15E-06	1.083YrCar	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
501 ALL	495126	3761596	1.10E-06	1.083YrCar	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
502 ALL	495146	3761596	1.04E-06	1.083YrCar	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
503 ALL	495166	3761596	9.97E-07	1.083YrCar	9.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
504 ALL	495186	3761596	9.53E-07	1.083YrCar	9.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
505 ALL	495206	3761596	9.12E-07	1.083YrCar	9.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
506 ALL	495226	3761596	8.73E-07	1.083YrCar	8.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
507 ALL	495246	3761596	8.37E-07	1.083YrCar	8.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
508 ALL	495266	3761596	8.03E-07	1.083YrCar	8.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
509 ALL	495286	3761596	7.72E-07	1.083YrCar	7.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
510 ALL	495306	3761596	7.43E-07	1.083YrCar	7.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
511 ALL	495326	3761596	7.16E-07	1.083YrCar	7.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
512 ALL	495346	3761596	6.90E-07	1.083YrCar	6.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
513 ALL	495366	3761596	6.65E-07	1.083YrCar	6.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
514 ALL	495386	3761596	6.42E-07	1.083YrCar	6.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
515 ALL	495406	3761596	6.20E-07	1.083YrCar	6.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
516 ALL	495426	3761596	5.99E-07	1.083YrCar	5.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

517	ALL	495446	3761596	5.79E-07	1.083YrCar	5.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
518	ALL	495466	3761596	5.59E-07	1.083YrCar	5.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
519	ALL	495486	3761596	5.41E-07	1.083YrCar	5.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
520	ALL	495506	3761596	5.22E-07	1.083YrCar	5.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
521	ALL	495526	3761596	5.04E-07	1.083YrCar	5.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
522	ALL	494846	3761616	2.30E-06	1.083YrCar	2.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
523	ALL	494866	3761616	2.15E-06	1.083YrCar	2.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
524	ALL	494886	3761616	2.01E-06	1.083YrCar	2.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
525	ALL	494906	3761616	1.90E-06	1.083YrCar	1.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
526	ALL	494926	3761616	1.78E-06	1.083YrCar	1.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
527	ALL	494946	3761616	1.68E-06	1.083YrCar	1.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
528	ALL	494966	3761616	1.58E-06	1.083YrCar	1.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
529	ALL	494986	3761616	1.50E-06	1.083YrCar	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
530	ALL	495006	3761616	1.42E-06	1.083YrCar	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
531	ALL	495026	3761616	1.34E-06	1.083YrCar	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
532	ALL	495046	3761616	1.27E-06	1.083YrCar	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
533	ALL	495066	3761616	1.21E-06	1.083YrCar	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
534	ALL	495086	3761616	1.16E-06	1.083YrCar	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
535	ALL	495106	3761616	1.10E-06	1.083YrCar	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
536	ALL	495126	3761616	1.05E-06	1.083YrCar	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
537	ALL	495146	3761616	1.01E-06	1.083YrCar	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
538	ALL	495166	3761616	9.61E-07	1.083YrCar	9.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
539	ALL	495186	3761616	9.19E-07	1.083YrCar	9.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
540	ALL	495206	3761616	8.80E-07	1.083YrCar	8.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
541	ALL	495226	3761616	8.43E-07	1.083YrCar	8.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
542	ALL	495246	3761616	8.09E-07	1.083YrCar	8.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
543	ALL	495266	3761616	7.76E-07	1.083YrCar	7.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
544	ALL	495286	3761616	7.46E-07	1.083YrCar	7.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
545	ALL	495306	3761616	7.18E-07	1.083YrCar	7.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
546	ALL	495326	3761616	6.92E-07	1.083YrCar	6.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
547	ALL	495346	3761616	6.67E-07	1.083YrCar	6.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
548	ALL	495366	3761616	6.44E-07	1.083YrCar	6.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
549	ALL	495386	3761616	6.20E-07	1.083YrCar	6.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
550	ALL	495406	3761616	5.98E-07	1.083YrCar	5.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
551	ALL	495426	3761616	5.78E-07	1.083YrCar	5.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
552	ALL	495446	3761616	5.61E-07	1.083YrCar	5.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
553	ALL	495466	3761616	5.42E-07	1.083YrCar	5.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
554	ALL	495486	3761616	5.25E-07	1.083YrCar	5.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
555	ALL	495506	3761616	5.07E-07	1.083YrCar	5.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
556	ALL	495526	3761616	4.89E-07	1.083YrCar	4.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
557	ALL	494846	3761636	2.16E-06	1.083YrCar	2.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
558	ALL	494866	3761636	2.02E-06	1.083YrCar	2.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
559	ALL	494886	3761636	1.89E-06	1.083YrCar	1.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
560	ALL	494906	3761636	1.79E-06	1.083YrCar	1.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
561	ALL	494926	3761636	1.68E-06	1.083YrCar	1.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
562	ALL	494946	3761636	1.59E-06	1.083YrCar	1.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
563	ALL	494966	3761636	1.50E-06	1.083YrCar	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

564	ALL	494986	3761636	1.42E-06	1.083YrCar	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
565	ALL	495006	3761636	1.35E-06	1.083YrCar	1.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
566	ALL	495026	3761636	1.28E-06	1.083YrCar	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
567	ALL	495046	3761636	1.22E-06	1.083YrCar	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
568	ALL	495066	3761636	1.16E-06	1.083YrCar	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
569	ALL	495086	3761636	1.11E-06	1.083YrCar	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
570	ALL	495106	3761636	1.06E-06	1.083YrCar	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
571	ALL	495126	3761636	1.01E-06	1.083YrCar	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
572	ALL	495146	3761636	9.62E-07	1.083YrCar	9.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
573	ALL	495166	3761636	9.19E-07	1.083YrCar	9.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
574	ALL	495186	3761636	8.80E-07	1.083YrCar	8.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
575	ALL	495206	3761636	8.44E-07	1.083YrCar	8.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
576	ALL	495226	3761636	8.10E-07	1.083YrCar	8.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
577	ALL	495246	3761636	7.78E-07	1.083YrCar	7.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
578	ALL	495266	3761636	7.47E-07	1.083YrCar	7.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
579	ALL	495286	3761636	7.19E-07	1.083YrCar	7.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
580	ALL	495306	3761636	6.92E-07	1.083YrCar	6.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
581	ALL	495326	3761636	6.68E-07	1.083YrCar	6.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
582	ALL	495346	3761636	6.44E-07	1.083YrCar	6.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
583	ALL	495366	3761636	6.22E-07	1.083YrCar	6.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
584	ALL	495386	3761636	6.00E-07	1.083YrCar	6.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
585	ALL	495406	3761636	5.79E-07	1.083YrCar	5.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
586	ALL	495426	3761636	5.58E-07	1.083YrCar	5.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
587	ALL	495446	3761636	5.40E-07	1.083YrCar	5.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
588	ALL	495466	3761636	5.23E-07	1.083YrCar	5.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
589	ALL	495486	3761636	5.07E-07	1.083YrCar	5.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
590	ALL	495506	3761636	4.90E-07	1.083YrCar	4.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
591	ALL	495526	3761636	4.73E-07	1.083YrCar	4.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
592	ALL	494846	3761656	2.01E-06	1.083YrCar	2.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
593	ALL	494866	3761656	1.88E-06	1.083YrCar	1.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
594	ALL	494886	3761656	1.77E-06	1.083YrCar	1.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
595	ALL	494906	3761656	1.68E-06	1.083YrCar	1.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
596	ALL	494926	3761656	1.58E-06	1.083YrCar	1.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
597	ALL	494946	3761656	1.49E-06	1.083YrCar	1.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
598	ALL	494966	3761656	1.41E-06	1.083YrCar	1.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
599	ALL	494986	3761656	1.34E-06	1.083YrCar	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
600	ALL	495006	3761656	1.28E-06	1.083YrCar	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
601	ALL	495026	3761656	1.21E-06	1.083YrCar	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
602	ALL	495046	3761656	1.15E-06	1.083YrCar	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
603	ALL	495066	3761656	1.10E-06	1.083YrCar	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
604	ALL	495086	3761656	1.05E-06	1.083YrCar	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
605	ALL	495106	3761656	1.01E-06	1.083YrCar	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
606	ALL	495126	3761656	9.61E-07	1.083YrCar	9.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
607	ALL	495146	3761656	9.17E-07	1.083YrCar	9.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
608	ALL	495166	3761656	8.78E-07	1.083YrCar	8.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
609	ALL	495186	3761656	8.42E-07	1.083YrCar	8.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
610	ALL	495206	3761656	8.08E-07	1.083YrCar	8.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

611 ALL	495226	3761656	7.76E-07	1.083YrCar	7.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
612 ALL	495246	3761656	7.46E-07	1.083YrCar	7.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
613 ALL	495266	3761656	7.18E-07	1.083YrCar	7.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
614 ALL	495286	3761656	6.91E-07	1.083YrCar	6.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
615 ALL	495306	3761656	6.66E-07	1.083YrCar	6.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
616 ALL	495326	3761656	6.42E-07	1.083YrCar	6.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
617 ALL	495346	3761656	6.20E-07	1.083YrCar	6.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
618 ALL	495366	3761656	6.00E-07	1.083YrCar	6.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
619 ALL	495386	3761656	5.80E-07	1.083YrCar	5.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
620 ALL	495406	3761656	5.59E-07	1.083YrCar	5.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
621 ALL	495426	3761656	5.38E-07	1.083YrCar	5.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
622 ALL	495446	3761656	5.19E-07	1.083YrCar	5.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
623 ALL	495466	3761656	5.04E-07	1.083YrCar	5.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
624 ALL	495486	3761656	4.88E-07	1.083YrCar	4.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
625 ALL	495506	3761656	4.73E-07	1.083YrCar	4.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
626 ALL	495526	3761656	4.57E-07	1.083YrCar	4.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
627 ALL	494846	3761676	1.87E-06	1.083YrCar	1.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
628 ALL	494866	3761676	1.75E-06	1.083YrCar	1.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
629 ALL	494886	3761676	1.65E-06	1.083YrCar	1.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
630 ALL	494906	3761676	1.57E-06	1.083YrCar	1.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
631 ALL	494926	3761676	1.48E-06	1.083YrCar	1.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
632 ALL	494946	3761676	1.40E-06	1.083YrCar	1.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
633 ALL	494966	3761676	1.33E-06	1.083YrCar	1.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
634 ALL	494986	3761676	1.27E-06	1.083YrCar	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
635 ALL	495006	3761676	1.21E-06	1.083YrCar	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
636 ALL	495026	3761676	1.15E-06	1.083YrCar	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
637 ALL	495046	3761676	1.09E-06	1.083YrCar	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
638 ALL	495066	3761676	1.04E-06	1.083YrCar	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
639 ALL	495086	3761676	1.00E-06	1.083YrCar	1.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
640 ALL	495106	3761676	9.57E-07	1.083YrCar	9.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
641 ALL	495126	3761676	9.15E-07	1.083YrCar	9.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
642 ALL	495146	3761676	8.75E-07	1.083YrCar	8.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
643 ALL	495166	3761676	8.39E-07	1.083YrCar	8.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
644 ALL	495186	3761676	8.05E-07	1.083YrCar	8.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
645 ALL	495206	3761676	7.73E-07	1.083YrCar	7.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
646 ALL	495226	3761676	7.44E-07	1.083YrCar	7.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
647 ALL	495246	3761676	7.16E-07	1.083YrCar	7.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
648 ALL	495266	3761676	6.89E-07	1.083YrCar	6.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
649 ALL	495286	3761676	6.64E-07	1.083YrCar	6.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
650 ALL	495306	3761676	6.39E-07	1.083YrCar	6.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
651 ALL	495326	3761676	6.16E-07	1.083YrCar	6.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
652 ALL	495346	3761676	5.95E-07	1.083YrCar	5.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
653 ALL	495366	3761676	5.76E-07	1.083YrCar	5.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
654 ALL	495386	3761676	5.57E-07	1.083YrCar	5.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
655 ALL	495406	3761676	5.39E-07	1.083YrCar	5.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
656 ALL	495426	3761676	5.19E-07	1.083YrCar	5.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
657 ALL	495446	3761676	4.99E-07	1.083YrCar	4.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

658	ALL	495466	3761676	4.83E-07	1.083YrCar	4.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
659	ALL	495486	3761676	4.69E-07	1.083YrCar	4.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
660	ALL	495506	3761676	4.55E-07	1.083YrCar	4.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
661	ALL	495526	3761676	4.41E-07	1.083YrCar	4.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
662	ALL	494846	3761696	1.73E-06	1.083YrCar	1.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
663	ALL	494866	3761696	1.63E-06	1.083YrCar	1.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
664	ALL	494886	3761696	1.54E-06	1.083YrCar	1.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
665	ALL	494906	3761696	1.47E-06	1.083YrCar	1.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
666	ALL	494926	3761696	1.39E-06	1.083YrCar	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
667	ALL	494946	3761696	1.32E-06	1.083YrCar	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
668	ALL	494966	3761696	1.25E-06	1.083YrCar	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
669	ALL	494986	3761696	1.19E-06	1.083YrCar	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
670	ALL	495006	3761696	1.14E-06	1.083YrCar	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
671	ALL	495026	3761696	1.08E-06	1.083YrCar	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
672	ALL	495046	3761696	1.03E-06	1.083YrCar	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
673	ALL	495066	3761696	9.86E-07	1.083YrCar	9.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
674	ALL	495086	3761696	9.46E-07	1.083YrCar	9.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
675	ALL	495106	3761696	9.07E-07	1.083YrCar	9.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
676	ALL	495126	3761696	8.69E-07	1.083YrCar	8.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
677	ALL	495146	3761696	8.33E-07	1.083YrCar	8.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
678	ALL	495166	3761696	8.00E-07	1.083YrCar	8.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
679	ALL	495186	3761696	7.69E-07	1.083YrCar	7.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
680	ALL	495206	3761696	7.39E-07	1.083YrCar	7.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
681	ALL	495226	3761696	7.11E-07	1.083YrCar	7.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
682	ALL	495246	3761696	6.84E-07	1.083YrCar	6.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
683	ALL	495266	3761696	6.60E-07	1.083YrCar	6.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
684	ALL	495286	3761696	6.37E-07	1.083YrCar	6.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
685	ALL	495306	3761696	6.14E-07	1.083YrCar	6.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
686	ALL	495326	3761696	5.92E-07	1.083YrCar	5.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
687	ALL	495346	3761696	5.71E-07	1.083YrCar	5.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
688	ALL	495366	3761696	5.52E-07	1.083YrCar	5.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
689	ALL	495386	3761696	5.35E-07	1.083YrCar	5.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
690	ALL	495406	3761696	5.18E-07	1.083YrCar	5.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
691	ALL	495426	3761696	5.00E-07	1.083YrCar	5.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
692	ALL	495446	3761696	4.81E-07	1.083YrCar	4.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
693	ALL	495466	3761696	4.64E-07	1.083YrCar	4.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
694	ALL	495486	3761696	4.50E-07	1.083YrCar	4.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
695	ALL	495506	3761696	4.37E-07	1.083YrCar	4.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
696	ALL	495526	3761696	4.25E-07	1.083YrCar	4.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
697	ALL	494846	3761716	1.61E-06	1.083YrCar	1.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
698	ALL	494866	3761716	1.52E-06	1.083YrCar	1.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
699	ALL	494886	3761716	1.44E-06	1.083YrCar	1.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
700	ALL	494906	3761716	1.37E-06	1.083YrCar	1.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
701	ALL	494926	3761716	1.30E-06	1.083YrCar	1.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
702	ALL	494946	3761716	1.23E-06	1.083YrCar	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
703	ALL	494966	3761716	1.17E-06	1.083YrCar	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
704	ALL	494986	3761716	1.12E-06	1.083YrCar	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

705	ALL	495006	3761716	1.07E-06	1.083YrCar	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
706	ALL	495026	3761716	1.02E-06	1.083YrCar	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
707	ALL	495046	3761716	9.72E-07	1.083YrCar	9.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
708	ALL	495066	3761716	9.31E-07	1.083YrCar	9.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
709	ALL	495086	3761716	8.95E-07	1.083YrCar	8.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
710	ALL	495106	3761716	8.58E-07	1.083YrCar	8.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
711	ALL	495126	3761716	8.23E-07	1.083YrCar	8.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
712	ALL	495146	3761716	7.91E-07	1.083YrCar	7.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
713	ALL	495166	3761716	7.61E-07	1.083YrCar	7.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
714	ALL	495186	3761716	7.33E-07	1.083YrCar	7.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
715	ALL	495206	3761716	7.05E-07	1.083YrCar	7.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
716	ALL	495226	3761716	6.77E-07	1.083YrCar	6.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
717	ALL	495246	3761716	6.52E-07	1.083YrCar	6.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718	ALL	495266	3761716	6.31E-07	1.083YrCar	6.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719	ALL	495286	3761716	6.10E-07	1.083YrCar	6.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720	ALL	495306	3761716	5.88E-07	1.083YrCar	5.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721	ALL	495326	3761716	5.68E-07	1.083YrCar	5.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722	ALL	495346	3761716	5.49E-07	1.083YrCar	5.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
723	ALL	495366	3761716	5.30E-07	1.083YrCar	5.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
724	ALL	495386	3761716	5.13E-07	1.083YrCar	5.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
725	ALL	495406	3761716	4.97E-07	1.083YrCar	4.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
726	ALL	495426	3761716	4.81E-07	1.083YrCar	4.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
727	ALL	495446	3761716	4.65E-07	1.083YrCar	4.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
728	ALL	495466	3761716	4.46E-07	1.083YrCar	4.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
729	ALL	495486	3761716	4.32E-07	1.083YrCar	4.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
730	ALL	495506	3761716	4.20E-07	1.083YrCar	4.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
731	ALL	495526	3761716	4.09E-07	1.083YrCar	4.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
732	ALL	495546	3761716	3.98E-07	1.083YrCar	3.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
733	ALL	494846	3761736	1.50E-06	1.083YrCar	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
734	ALL	494866	3761736	1.42E-06	1.083YrCar	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
735	ALL	494886	3761736	1.35E-06	1.083YrCar	1.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
736	ALL	494906	3761736	1.29E-06	1.083YrCar	1.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
737	ALL	494926	3761736	1.22E-06	1.083YrCar	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
738	ALL	494946	3761736	1.16E-06	1.083YrCar	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
739	ALL	494966	3761736	1.10E-06	1.083YrCar	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
740	ALL	494986	3761736	1.06E-06	1.083YrCar	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
741	ALL	495006	3761736	1.01E-06	1.083YrCar	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
742	ALL	495026	3761736	9.61E-07	1.083YrCar	9.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
743	ALL	495046	3761736	9.18E-07	1.083YrCar	9.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
744	ALL	495066	3761736	8.81E-07	1.083YrCar	8.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
745	ALL	495086	3761736	8.47E-07	1.083YrCar	8.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
746	ALL	495106	3761736	8.12E-07	1.083YrCar	8.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
747	ALL	495126	3761736	7.80E-07	1.083YrCar	7.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
748	ALL	495146	3761736	7.50E-07	1.083YrCar	7.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
749	ALL	495166	3761736	7.21E-07	1.083YrCar	7.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
750	ALL	495186	3761736	6.96E-07	1.083YrCar	6.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
751	ALL	495206	3761736	6.70E-07	1.083YrCar	6.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

752	ALL	495226	3761736	6.44E-07	1.083YrCar	6.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
753	ALL	495246	3761736	6.19E-07	1.083YrCar	6.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
754	ALL	495266	3761736	6.01E-07	1.083YrCar	6.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
755	ALL	495286	3761736	5.82E-07	1.083YrCar	5.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
756	ALL	495306	3761736	5.63E-07	1.083YrCar	5.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
757	ALL	495326	3761736	5.44E-07	1.083YrCar	5.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
758	ALL	495346	3761736	5.27E-07	1.083YrCar	5.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
759	ALL	495366	3761736	5.09E-07	1.083YrCar	5.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
760	ALL	495386	3761736	4.92E-07	1.083YrCar	4.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
761	ALL	495406	3761736	4.76E-07	1.083YrCar	4.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
762	ALL	495426	3761736	4.63E-07	1.083YrCar	4.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
763	ALL	495446	3761736	4.49E-07	1.083YrCar	4.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
764	ALL	495466	3761736	4.31E-07	1.083YrCar	4.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
765	ALL	495486	3761736	4.17E-07	1.083YrCar	4.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
766	ALL	495506	3761736	4.05E-07	1.083YrCar	4.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
767	ALL	495526	3761736	3.95E-07	1.083YrCar	3.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
768	ALL	495546	3761736	3.84E-07	1.083YrCar	3.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
769	ALL	494846	3761756	1.40E-06	1.083YrCar	1.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
770	ALL	494866	3761756	1.33E-06	1.083YrCar	1.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
771	ALL	494886	3761756	1.27E-06	1.083YrCar	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
772	ALL	494906	3761756	1.21E-06	1.083YrCar	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
773	ALL	494926	3761756	1.15E-06	1.083YrCar	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
774	ALL	494946	3761756	1.09E-06	1.083YrCar	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
775	ALL	494966	3761756	1.04E-06	1.083YrCar	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
776	ALL	494986	3761756	9.97E-07	1.083YrCar	9.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
777	ALL	495006	3761756	9.53E-07	1.083YrCar	9.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
778	ALL	495026	3761756	9.10E-07	1.083YrCar	9.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
779	ALL	495046	3761756	8.71E-07	1.083YrCar	8.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
780	ALL	495066	3761756	8.36E-07	1.083YrCar	8.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
781	ALL	495086	3761756	8.03E-07	1.083YrCar	8.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
782	ALL	495106	3761756	7.71E-07	1.083YrCar	7.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
783	ALL	495126	3761756	7.40E-07	1.083YrCar	7.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
784	ALL	495146	3761756	7.11E-07	1.083YrCar	7.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
785	ALL	495166	3761756	6.85E-07	1.083YrCar	6.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
786	ALL	495186	3761756	6.62E-07	1.083YrCar	6.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
787	ALL	495206	3761756	6.38E-07	1.083YrCar	6.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
788	ALL	495226	3761756	6.15E-07	1.083YrCar	6.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
789	ALL	495246	3761756	5.92E-07	1.083YrCar	5.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
790	ALL	495266	3761756	5.75E-07	1.083YrCar	5.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
791	ALL	495286	3761756	5.57E-07	1.083YrCar	5.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
792	ALL	495306	3761756	5.39E-07	1.083YrCar	5.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
793	ALL	495326	3761756	5.21E-07	1.083YrCar	5.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
794	ALL	495346	3761756	5.05E-07	1.083YrCar	5.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
795	ALL	495366	3761756	4.89E-07	1.083YrCar	4.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
796	ALL	495386	3761756	4.72E-07	1.083YrCar	4.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
797	ALL	495406	3761756	4.58E-07	1.083YrCar	4.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
798	ALL	495426	3761756	4.45E-07	1.083YrCar	4.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

799	ALL	495446	3761756	4.32E-07	1.083YrCar	4.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
800	ALL	495466	3761756	4.17E-07	1.083YrCar	4.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
801	ALL	495486	3761756	4.04E-07	1.083YrCar	4.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
802	ALL	495506	3761756	3.93E-07	1.083YrCar	3.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
803	ALL	495526	3761756	3.82E-07	1.083YrCar	3.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
804	ALL	495546	3761756	3.71E-07	1.083YrCar	3.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
805	ALL	495566	3761756	3.61E-07	1.083YrCar	3.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
806	ALL	494846	3761776	1.31E-06	1.083YrCar	1.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
807	ALL	494866	3761776	1.25E-06	1.083YrCar	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
808	ALL	494886	3761776	1.19E-06	1.083YrCar	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
809	ALL	494906	3761776	1.14E-06	1.083YrCar	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
810	ALL	494926	3761776	1.08E-06	1.083YrCar	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
811	ALL	494946	3761776	1.03E-06	1.083YrCar	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
812	ALL	494966	3761776	9.84E-07	1.083YrCar	9.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
813	ALL	494986	3761776	9.42E-07	1.083YrCar	9.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
814	ALL	495006	3761776	9.01E-07	1.083YrCar	9.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
815	ALL	495026	3761776	8.62E-07	1.083YrCar	8.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
816	ALL	495046	3761776	8.26E-07	1.083YrCar	8.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
817	ALL	495066	3761776	7.93E-07	1.083YrCar	7.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
818	ALL	495086	3761776	7.63E-07	1.083YrCar	7.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
819	ALL	495106	3761776	7.32E-07	1.083YrCar	7.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
820	ALL	495126	3761776	7.03E-07	1.083YrCar	7.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
821	ALL	495146	3761776	6.76E-07	1.083YrCar	6.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
822	ALL	495166	3761776	6.50E-07	1.083YrCar	6.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
823	ALL	495186	3761776	6.29E-07	1.083YrCar	6.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
824	ALL	495206	3761776	6.09E-07	1.083YrCar	6.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
825	ALL	495226	3761776	5.88E-07	1.083YrCar	5.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
826	ALL	495246	3761776	5.67E-07	1.083YrCar	5.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
827	ALL	495266	3761776	5.50E-07	1.083YrCar	5.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
828	ALL	495286	3761776	5.33E-07	1.083YrCar	5.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
829	ALL	495306	3761776	5.15E-07	1.083YrCar	5.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
830	ALL	495326	3761776	4.99E-07	1.083YrCar	4.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
831	ALL	495346	3761776	4.84E-07	1.083YrCar	4.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
832	ALL	495366	3761776	4.69E-07	1.083YrCar	4.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
833	ALL	495386	3761776	4.54E-07	1.083YrCar	4.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
834	ALL	495406	3761776	4.40E-07	1.083YrCar	4.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
835	ALL	495426	3761776	4.28E-07	1.083YrCar	4.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
836	ALL	495446	3761776	4.15E-07	1.083YrCar	4.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
837	ALL	495466	3761776	4.03E-07	1.083YrCar	4.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
838	ALL	495486	3761776	3.92E-07	1.083YrCar	3.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
839	ALL	495506	3761776	3.81E-07	1.083YrCar	3.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
840	ALL	495526	3761776	3.70E-07	1.083YrCar	3.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
841	ALL	495546	3761776	3.60E-07	1.083YrCar	3.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
842	ALL	495566	3761776	3.49E-07	1.083YrCar	3.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
843	ALL	494846	3761796	1.23E-06	1.083YrCar	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
844	ALL	494866	3761796	1.17E-06	1.083YrCar	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
845	ALL	494886	3761796	1.11E-06	1.083YrCar	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

846	ALL	494906	3761796	1.06E-06	1.083YrCar	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
847	ALL	494926	3761796	1.01E-06	1.083YrCar	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
848	ALL	494946	3761796	9.68E-07	1.083YrCar	9.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
849	ALL	494966	3761796	9.25E-07	1.083YrCar	9.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
850	ALL	494986	3761796	8.86E-07	1.083YrCar	8.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
851	ALL	495006	3761796	8.48E-07	1.083YrCar	8.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
852	ALL	495026	3761796	8.13E-07	1.083YrCar	8.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
853	ALL	495046	3761796	7.80E-07	1.083YrCar	7.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
854	ALL	495066	3761796	7.50E-07	1.083YrCar	7.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
855	ALL	495086	3761796	7.21E-07	1.083YrCar	7.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
856	ALL	495106	3761796	6.93E-07	1.083YrCar	6.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
857	ALL	495126	3761796	6.66E-07	1.083YrCar	6.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
858	ALL	495146	3761796	6.41E-07	1.083YrCar	6.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
859	ALL	495166	3761796	6.18E-07	1.083YrCar	6.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
860	ALL	495186	3761796	5.98E-07	1.083YrCar	5.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
861	ALL	495206	3761796	5.80E-07	1.083YrCar	5.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
862	ALL	495226	3761796	5.61E-07	1.083YrCar	5.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
863	ALL	495246	3761796	5.43E-07	1.083YrCar	5.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
864	ALL	495266	3761796	5.26E-07	1.083YrCar	5.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
865	ALL	495286	3761796	5.10E-07	1.083YrCar	5.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
866	ALL	495306	3761796	4.94E-07	1.083YrCar	4.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
867	ALL	495326	3761796	4.78E-07	1.083YrCar	4.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
868	ALL	495346	3761796	4.64E-07	1.083YrCar	4.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
869	ALL	495366	3761796	4.50E-07	1.083YrCar	4.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
870	ALL	495386	3761796	4.36E-07	1.083YrCar	4.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
871	ALL	495406	3761796	4.23E-07	1.083YrCar	4.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
872	ALL	495426	3761796	4.11E-07	1.083YrCar	4.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
873	ALL	495446	3761796	4.00E-07	1.083YrCar	4.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
874	ALL	495466	3761796	3.89E-07	1.083YrCar	3.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
875	ALL	495486	3761796	3.78E-07	1.083YrCar	3.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
876	ALL	495506	3761796	3.67E-07	1.083YrCar	3.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
877	ALL	495526	3761796	3.57E-07	1.083YrCar	3.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
878	ALL	495546	3761796	3.47E-07	1.083YrCar	3.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
879	ALL	495566	3761796	3.37E-07	1.083YrCar	3.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
880	ALL	494966	3761816	8.72E-07	1.083YrCar	8.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
881	ALL	494986	3761816	8.35E-07	1.083YrCar	8.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
882	ALL	495006	3761816	8.01E-07	1.083YrCar	8.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
883	ALL	495026	3761816	7.69E-07	1.083YrCar	7.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
884	ALL	495046	3761816	7.39E-07	1.083YrCar	7.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
885	ALL	495066	3761816	7.10E-07	1.083YrCar	7.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
886	ALL	495086	3761816	6.83E-07	1.083YrCar	6.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
887	ALL	495106	3761816	6.57E-07	1.083YrCar	6.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
888	ALL	495126	3761816	6.32E-07	1.083YrCar	6.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
889	ALL	495146	3761816	6.09E-07	1.083YrCar	6.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
890	ALL	495166	3761816	5.88E-07	1.083YrCar	5.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
891	ALL	495186	3761816	5.70E-07	1.083YrCar	5.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
892	ALL	495206	3761816	5.52E-07	1.083YrCar	5.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

893 ALL	495226	3761816	5.35E-07	1.083YrCar	5.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
894 ALL	495246	3761816	5.17E-07	1.083YrCar	5.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
895 ALL	495266	3761816	5.01E-07	1.083YrCar	5.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
896 ALL	495286	3761816	4.86E-07	1.083YrCar	4.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
897 ALL	495306	3761816	4.72E-07	1.083YrCar	4.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
898 ALL	495326	3761816	4.57E-07	1.083YrCar	4.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
899 ALL	495346	3761816	4.43E-07	1.083YrCar	4.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
900 ALL	495366	3761816	4.30E-07	1.083YrCar	4.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
901 ALL	495386	3761816	4.18E-07	1.083YrCar	4.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
902 ALL	495406	3761816	4.06E-07	1.083YrCar	4.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903 ALL	495426	3761816	3.95E-07	1.083YrCar	3.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
904 ALL	495446	3761816	3.84E-07	1.083YrCar	3.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
905 ALL	495466	3761816	3.74E-07	1.083YrCar	3.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
906 ALL	495486	3761816	3.64E-07	1.083YrCar	3.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
907 ALL	495506	3761816	3.54E-07	1.083YrCar	3.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
908 ALL	495526	3761816	3.44E-07	1.083YrCar	3.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
909 ALL	495546	3761816	3.34E-07	1.083YrCar	3.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
910 ALL	495566	3761816	3.25E-07	1.083YrCar	3.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
911 ALL	495126	3761836	6.01E-07	1.083YrCar	6.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
912 ALL	495146	3761836	5.80E-07	1.083YrCar	5.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
913 ALL	495166	3761836	5.60E-07	1.083YrCar	5.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
914 ALL	495186	3761836	5.43E-07	1.083YrCar	5.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
915 ALL	495206	3761836	5.26E-07	1.083YrCar	5.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
916 ALL	495226	3761836	5.09E-07	1.083YrCar	5.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
917 ALL	495366	3761836	4.11E-07	1.083YrCar	4.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
918 ALL	495386	3761836	4.00E-07	1.083YrCar	4.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
919 ALL	495406	3761836	3.89E-07	1.083YrCar	3.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
920 ALL	495426	3761836	3.79E-07	1.083YrCar	3.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
921 ALL	495446	3761836	3.69E-07	1.083YrCar	3.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
922 ALL	495466	3761836	3.59E-07	1.083YrCar	3.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
923 ALL	495486	3761836	3.50E-07	1.083YrCar	3.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
924 ALL	495506	3761836	3.40E-07	1.083YrCar	3.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
925 ALL	495526	3761836	3.31E-07	1.083YrCar	3.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
926 ALL	495546	3761836	3.21E-07	1.083YrCar	3.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
927 ALL	495566	3761836	3.12E-07	1.083YrCar	3.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
928 ALL	495126	3761856	5.73E-07	1.083YrCar	5.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
929 ALL	495146	3761856	5.52E-07	1.083YrCar	5.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
930 ALL	495166	3761856	5.34E-07	1.083YrCar	5.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
931 ALL	495186	3761856	5.19E-07	1.083YrCar	5.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
932 ALL	495206	3761856	5.02E-07	1.083YrCar	5.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
933 ALL	495226	3761856	4.86E-07	1.083YrCar	4.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
934 ALL	495386	3761856	3.84E-07	1.083YrCar	3.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
935 ALL	495406	3761856	3.75E-07	1.083YrCar	3.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
936 ALL	495426	3761856	3.66E-07	1.083YrCar	3.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
937 ALL	495446	3761856	3.56E-07	1.083YrCar	3.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
938 ALL	495466	3761856	3.47E-07	1.083YrCar	3.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
939 ALL	495486	3761856	3.37E-07	1.083YrCar	3.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

940	ALL	495506	3761856	3.28E-07	1.083YrCar	3.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
941	ALL	495526	3761856	3.19E-07	1.083YrCar	3.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
942	ALL	495546	3761856	3.09E-07	1.083YrCar	3.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
943	ALL	495566	3761856	3.00E-07	1.083YrCar	3.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
944	ALL	495126	3761876	5.46E-07	1.083YrCar	5.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
945	ALL	495146	3761876	5.27E-07	1.083YrCar	5.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
946	ALL	495166	3761876	5.10E-07	1.083YrCar	5.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
947	ALL	495186	3761876	4.95E-07	1.083YrCar	4.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
948	ALL	495206	3761876	4.80E-07	1.083YrCar	4.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
949	ALL	495226	3761876	4.64E-07	1.083YrCar	4.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
950	ALL	495386	3761876	3.70E-07	1.083YrCar	3.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
951	ALL	495406	3761876	3.61E-07	1.083YrCar	3.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
952	ALL	495426	3761876	3.52E-07	1.083YrCar	3.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
953	ALL	495446	3761876	3.44E-07	1.083YrCar	3.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
954	ALL	495466	3761876	3.35E-07	1.083YrCar	3.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
955	ALL	495486	3761876	3.26E-07	1.083YrCar	3.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
956	ALL	495506	3761876	3.17E-07	1.083YrCar	3.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
957	ALL	495526	3761876	3.08E-07	1.083YrCar	3.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
958	ALL	495546	3761876	2.99E-07	1.083YrCar	2.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
959	ALL	495566	3761876	2.89E-07	1.083YrCar	2.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
960	ALL	495126	3761896	5.22E-07	1.083YrCar	5.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
961	ALL	495146	3761896	5.04E-07	1.083YrCar	5.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
962	ALL	495166	3761896	4.87E-07	1.083YrCar	4.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
963	ALL	495186	3761896	4.73E-07	1.083YrCar	4.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
964	ALL	495206	3761896	4.58E-07	1.083YrCar	4.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
965	ALL	495226	3761896	4.44E-07	1.083YrCar	4.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
966	ALL	495386	3761896	3.56E-07	1.083YrCar	3.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL	495406	3761896	3.48E-07	1.083YrCar	3.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
968	ALL	495426	3761896	3.40E-07	1.083YrCar	3.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
969	ALL	495446	3761896	3.32E-07	1.083YrCar	3.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
970	ALL	495466	3761896	3.23E-07	1.083YrCar	3.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
971	ALL	495486	3761896	3.15E-07	1.083YrCar	3.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
972	ALL	495506	3761896	3.07E-07	1.083YrCar	3.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
973	ALL	495526	3761896	2.99E-07	1.083YrCar	2.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
974	ALL	495546	3761896	2.90E-07	1.083YrCar	2.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
975	ALL	495566	3761896	2.80E-07	1.083YrCar	2.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
976	ALL	495586	3761896	2.73E-07	1.083YrCar	2.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
977	ALL	495126	3761916	5.01E-07	1.083YrCar	5.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
978	ALL	495146	3761916	4.84E-07	1.083YrCar	4.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
979	ALL	495166	3761916	4.68E-07	1.083YrCar	4.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
980	ALL	495186	3761916	4.55E-07	1.083YrCar	4.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
981	ALL	495206	3761916	4.40E-07	1.083YrCar	4.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
982	ALL	495226	3761916	4.26E-07	1.083YrCar	4.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
983	ALL	495386	3761916	3.42E-07	1.083YrCar	3.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
984	ALL	495406	3761916	3.35E-07	1.083YrCar	3.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
985	ALL	495426	3761916	3.27E-07	1.083YrCar	3.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
986	ALL	495446	3761916	3.19E-07	1.083YrCar	3.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

987	ALL	495466	3761916	3.12E-07	1.083YrCar	3.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
988	ALL	495486	3761916	3.04E-07	1.083YrCar	3.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
989	ALL	495506	3761916	2.96E-07	1.083YrCar	2.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
990	ALL	495526	3761916	2.88E-07	1.083YrCar	2.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
991	ALL	495546	3761916	2.79E-07	1.083YrCar	2.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
992	ALL	495566	3761916	2.71E-07	1.083YrCar	2.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
993	ALL	495586	3761916	2.64E-07	1.083YrCar	2.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
994	ALL	495126	3761936	4.81E-07	1.083YrCar	4.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
995	ALL	495146	3761936	4.65E-07	1.083YrCar	4.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
996	ALL	495166	3761936	4.50E-07	1.083YrCar	4.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
997	ALL	495186	3761936	4.37E-07	1.083YrCar	4.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
998	ALL	495206	3761936	4.23E-07	1.083YrCar	4.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
999	ALL	495226	3761936	4.10E-07	1.083YrCar	4.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1000	ALL	495146	3761956	4.47E-07	1.083YrCar	4.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1001	ALL	495166	3761956	4.33E-07	1.083YrCar	4.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1002	ALL	495186	3761956	4.21E-07	1.083YrCar	4.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1003	ALL	495206	3761956	4.08E-07	1.083YrCar	4.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1004	ALL	495226	3761956	3.96E-07	1.083YrCar	3.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1005	ALL	495146	3761976	4.30E-07	1.083YrCar	4.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1006	ALL	495166	3761976	4.16E-07	1.083YrCar	4.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1007	ALL	495186	3761976	4.05E-07	1.083YrCar	4.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1008	ALL	495206	3761976	3.93E-07	1.083YrCar	3.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1009	ALL	495226	3761976	3.81E-07	1.083YrCar	3.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1010	ALL	495146	3761996	4.14E-07	1.083YrCar	4.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1011	ALL	495166	3761996	4.01E-07	1.083YrCar	4.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1012	ALL	495186	3761996	3.90E-07	1.083YrCar	3.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1013	ALL	495206	3761996	3.78E-07	1.083YrCar	3.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1014	ALL	495226	3761996	3.67E-07	1.083YrCar	3.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1015	ALL	495146	3762016	3.98E-07	1.083YrCar	3.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1016	ALL	495166	3762016	3.86E-07	1.083YrCar	3.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1017	ALL	495186	3762016	3.76E-07	1.083YrCar	3.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1018	ALL	495206	3762016	3.65E-07	1.083YrCar	3.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1019	ALL	495226	3762016	3.54E-07	1.083YrCar	3.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1020	ALL	495146	3762036	3.84E-07	1.083YrCar	3.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1021	ALL	495166	3762036	3.73E-07	1.083YrCar	3.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1022	ALL	495186	3762036	3.62E-07	1.083YrCar	3.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1023	ALL	495206	3762036	3.51E-07	1.083YrCar	3.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1024	ALL	495226	3762036	3.41E-07	1.083YrCar	3.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1025	ALL	495146	3762056	3.71E-07	1.083YrCar	3.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1026	ALL	495166	3762056	3.60E-07	1.083YrCar	3.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1027	ALL	495186	3762056	3.49E-07	1.083YrCar	3.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1028	ALL	495206	3762056	3.39E-07	1.083YrCar	3.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1029	ALL	495226	3762056	3.29E-07	1.083YrCar	3.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1030	ALL	494031.1	3761757	1.64E-06	1.083YrCar	1.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1031	ALL	494022.5	3761743	1.64E-06	1.083YrCar	1.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1032	ALL	494020.5	3761734	1.65E-06	1.083YrCar	1.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1033	ALL	494013.4	3761724	1.65E-06	1.083YrCar	1.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1034	ALL	494002.7	3761712	1.62E-06	1.083YrCar	1.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1035	ALL	493991.6	3761703	1.58E-06	1.083YrCar	1.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1036	ALL	493980.4	3761693	1.55E-06	1.083YrCar	1.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1037	ALL	493969.8	3761686	1.51E-06	1.083YrCar	1.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1038	ALL	493957.6	3761681	1.46E-06	1.083YrCar	1.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1039	ALL	493943.9	3761674	1.40E-06	1.083YrCar	1.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1040	ALL	493926.2	3761673	1.33E-06	1.083YrCar	1.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1041	ALL	493913.5	3761671	1.28E-06	1.083YrCar	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1042	ALL	493899.8	3761670	1.23E-06	1.083YrCar	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1043	ALL	493832.4	3761639	1.04E-06	1.083YrCar	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1044	ALL	493822.8	3761647	1.01E-06	1.083YrCar	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1045	ALL	493811.1	3761658	9.69E-07	1.083YrCar	9.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1046	ALL	493809.6	3761669	9.59E-07	1.083YrCar	9.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1047	ALL	493817.7	3761682	9.71E-07	1.083YrCar	9.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1048	ALL	493833.4	3761690	1.01E-06	1.083YrCar	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1049	ALL	493853.7	3761695	1.06E-06	1.083YrCar	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1050	ALL	493871.5	3761693	1.11E-06	1.083YrCar	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1051	ALL	493888.2	3761693	1.17E-06	1.083YrCar	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1052	ALL	493905.9	3761694	1.23E-06	1.083YrCar	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1053	ALL	493920.6	3761695	1.28E-06	1.083YrCar	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1054	ALL	493939.4	3761698	1.35E-06	1.083YrCar	1.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1055	ALL	493959.6	3761707	1.42E-06	1.083YrCar	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1056	ALL	493975.4	3761717	1.47E-06	1.083YrCar	1.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1057	ALL	493983.5	3761726	1.49E-06	1.083YrCar	1.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1058	ALL	493991.1	3761738	1.50E-06	1.083YrCar	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1059	ALL	494001.2	3761754	1.50E-06	1.083YrCar	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1060	ALL	493984.5	3761753	1.43E-06	1.083YrCar	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1061	ALL	493980.4	3761747	1.43E-06	1.083YrCar	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1062	ALL	493970.8	3761735	1.41E-06	1.083YrCar	1.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1063	ALL	493953.6	3761728	1.35E-06	1.083YrCar	1.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1064	ALL	493937.3	3761717	1.31E-06	1.083YrCar	1.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1065	ALL	493921.1	3761715	1.25E-06	1.083YrCar	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1066	ALL	493906.9	3761711	1.21E-06	1.083YrCar	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1067	ALL	493887.2	3761711	1.14E-06	1.083YrCar	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1068	ALL	493870.4	3761711	1.09E-06	1.083YrCar	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1069	ALL	493857.8	3761711	1.05E-06	1.083YrCar	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1070	ALL	493843.1	3761710	1.01E-06	1.083YrCar	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1071	ALL	493829.4	3761710	9.79E-07	1.083YrCar	9.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1072	ALL	493806.6	3761701	9.30E-07	1.083YrCar	9.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1073	ALL	493799.5	3761684	9.25E-07	1.083YrCar	9.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1074	ALL	493797.5	3761663	9.32E-07	1.083YrCar	9.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1075	ALL	493779.7	3761668	8.87E-07	1.083YrCar	8.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1076	ALL	493775.1	3761688	8.67E-07	1.083YrCar	8.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1077	ALL	493782.8	3761700	8.76E-07	1.083YrCar	8.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1078	ALL	493793.4	3761717	8.87E-07	1.083YrCar	8.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1079	ALL	493809.1	3761731	9.11E-07	1.083YrCar	9.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1080	ALL	493821.3	3761732	9.38E-07	1.083YrCar	9.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1081 ALL	493843.6	3761731	9.94E-07	1.083YrCar	9.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1082 ALL	493875	3761734	1.08E-06	1.083YrCar	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1083 ALL	493883.6	3761733	1.10E-06	1.083YrCar	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1084 ALL	493904.9	3761735	1.17E-06	1.083YrCar	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1085 ALL	493928.7	3761736	1.24E-06	1.083YrCar	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1086 ALL	493941.4	3761746	1.27E-06	1.083YrCar	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1087 ALL	493954.1	3761758	1.30E-06	1.083YrCar	1.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1088 ALL	493931.8	3761757	1.22E-06	1.083YrCar	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1089 ALL	493915.5	3761755	1.17E-06	1.083YrCar	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1090 ALL	493903.4	3761754	1.13E-06	1.083YrCar	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1091 ALL	493888.7	3761754	1.09E-06	1.083YrCar	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1092 ALL	493873	3761754	1.04E-06	1.083YrCar	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1093 ALL	493851.7	3761754	9.86E-07	1.083YrCar	9.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1094 ALL	493835.5	3761752	9.49E-07	1.083YrCar	9.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1095 ALL	493818.7	3761751	9.11E-07	1.083YrCar	9.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1096 ALL	493742.2	3761651	8.10E-07	1.083YrCar	8.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1097 ALL	493742.2	3761665	8.04E-07	1.083YrCar	8.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1098 ALL	493742.2	3761680	7.97E-07	1.083YrCar	7.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1099 ALL	493746.3	3761695	7.98E-07	1.083YrCar	7.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1100 ALL	493750.3	3761709	7.99E-07	1.083YrCar	7.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1101 ALL	493754.9	3761721	8.03E-07	1.083YrCar	8.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1102 ALL	493757.9	3761733	8.02E-07	1.083YrCar	8.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1103 ALL	493772.1	3761750	8.15E-07	1.083YrCar	8.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1104 ALL	493760.4	3761749	7.94E-07	1.083YrCar	7.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1105 ALL	493749.3	3761749	7.75E-07	1.083YrCar	7.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1106 ALL	493730.5	3761749	7.42E-07	1.083YrCar	7.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1107 ALL	493705.7	3761747	7.03E-07	1.083YrCar	7.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1108 ALL	493712.8	3761771	6.95E-07	1.083YrCar	6.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1109 ALL	493739.7	3761768	7.41E-07	1.083YrCar	7.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1110 ALL	493757.4	3761769	7.70E-07	1.083YrCar	7.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1111 ALL	493780.2	3761771	8.10E-07	1.083YrCar	8.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1112 ALL	493801.5	3761770	8.52E-07	1.083YrCar	8.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1113 ALL	493830.9	3761773	9.11E-07	1.083YrCar	9.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1114 ALL	493850.7	3761774	9.58E-07	1.083YrCar	9.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1115 ALL	493872.5	3761774	1.01E-06	1.083YrCar	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1116 ALL	493893.8	3761777	1.07E-06	1.083YrCar	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1117 ALL	493908.5	3761776	1.11E-06	1.083YrCar	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1118 ALL	493926.2	3761780	1.16E-06	1.083YrCar	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1119 ALL	493937.8	3761779	1.20E-06	1.083YrCar	1.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1120 ALL	493952.5	3761780	1.25E-06	1.083YrCar	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1121 ALL	493967.8	3761780	1.30E-06	1.083YrCar	1.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1122 ALL	493975.4	3761784	1.32E-06	1.083YrCar	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1123 ALL	493989.5	3761780	1.39E-06	1.083YrCar	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1124 ALL	494000.2	3761782	1.43E-06	1.083YrCar	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1125 ALL	494014.9	3761785	1.48E-06	1.083YrCar	1.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1126 ALL	494027.1	3761786	1.53E-06	1.083YrCar	1.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1127 ALL	494049.4	3761786	1.63E-06	1.083YrCar	1.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1128	ALL	494066.1	3761786	1.72E-06	1.083YrCar	1.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1129	ALL	494171.4	3761821	2.15E-06	1.083YrCar	2.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1130	ALL	494176.5	3761841	2.04E-06	1.083YrCar	2.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1131	ALL	494171.4	3761886	1.73E-06	1.083YrCar	1.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1132	ALL	494831.5	3761815	1.20E-06	1.083YrCar	1.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1133	ALL	494846.3	3761570	2.62E-06	1.083YrCar	2.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1134	ALL	494859.8	3761515	2.72E-06	1.083YrCar	2.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1135	ALL	494839.6	3761452	2.94E-06	1.083YrCar	2.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1136	ALL	494863.6	3761459	2.71E-06	1.083YrCar	2.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1137	ALL	494888	3761461	2.49E-06	1.083YrCar	2.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1138	ALL	494935.8	3761473	2.13E-06	1.083YrCar	2.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1139	ALL	494961.9	3761422	1.92E-06	1.083YrCar	1.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1140	ALL	494996.5	3761368	1.63E-06	1.083YrCar	1.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1141	ALL	494991.5	3761327	1.53E-06	1.083YrCar	1.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1142	ALL	495039.8	3761351	1.43E-06	1.083YrCar	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1143	ALL	495133.9	3761336	9.83E-07	1.083YrCar	9.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1144	ALL	495229.3	3761326	9.35E-07	1.083YrCar	9.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1145	ALL	495414.8	3761335	6.74E-07	1.083YrCar	6.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1146	ALL	495539.8	3761406	5.71E-07	1.083YrCar	5.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1147	ALL	495545.2	3761698	4.13E-07	1.083YrCar	4.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1148	ALL	495576.1	3761784	3.39E-07	1.083YrCar	3.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1149	ALL	495589.5	3761934	2.55E-07	1.083YrCar	2.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1150	ALL	495387.9	3761934	3.30E-07	1.083YrCar	3.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1151	ALL	495359.7	3761828	4.23E-07	1.083YrCar	4.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1152	ALL	495237.4	3761820	5.20E-07	1.083YrCar	5.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1153	ALL	495237.4	3762073	3.15E-07	1.083YrCar	3.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1154	ALL	495127.2	3762069	3.73E-07	1.083YrCar	3.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1155	ALL	495124.5	3761819	6.30E-07	1.083YrCar	6.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1156	ALL	494831.5	3761815	1.20E-06	1.083YrCar	1.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1157	ALL	494846.3	3761570	2.62E-06	1.083YrCar	2.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1158	ALL	494859.8	3761515	2.72E-06	1.083YrCar	2.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1159	ALL	494839.6	3761452	2.94E-06	1.083YrCar	2.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1160	ALL	494863.6	3761459	2.71E-06	1.083YrCar	2.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1161	ALL	494888	3761461	2.49E-06	1.083YrCar	2.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1162	ALL	494935.8	3761473	2.13E-06	1.083YrCar	2.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1163	ALL	494961.9	3761422	1.92E-06	1.083YrCar	1.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1164	ALL	494996.5	3761368	1.63E-06	1.083YrCar	1.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1165	ALL	494991.5	3761327	1.53E-06	1.083YrCar	1.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1166	ALL	495039.8	3761351	1.43E-06	1.083YrCar	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1167	ALL	495133.9	3761336	9.83E-07	1.083YrCar	9.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1168	ALL	495229.3	3761326	9.35E-07	1.083YrCar	9.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1169	ALL	495414.8	3761335	6.74E-07	1.083YrCar	6.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1170	ALL	495539.8	3761406	5.71E-07	1.083YrCar	5.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1171	ALL	495545.2	3761698	4.13E-07	1.083YrCar	4.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1172	ALL	495576.1	3761784	3.39E-07	1.083YrCar	3.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1173	ALL	495589.5	3761934	2.55E-07	1.083YrCar	2.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1174	ALL	495387.9	3761934	3.30E-07	1.083YrCar	3.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1175	ALL	495359.7	3761828	4.23E-07	1.083YrCar	4.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1176	ALL	495237.4	3761820	5.20E-07	1.083YrCar	5.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1177	ALL	495237.4	3762073	3.15E-07	1.083YrCar	3.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1178	ALL	495127.2	3762069	3.73E-07	1.083YrCar	3.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1179	ALL	495124.5	3761819	6.30E-07	1.083YrCar	6.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEET	ENDO	BLOOD	ODOR	GENERAL	MAXHI
1	ALL		494031.1	3761757	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03
2	ALL		494022.5	3761743	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03
3	ALL		494020.5	3761734	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-03
4	ALL		494013.4	3761724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03
5	ALL		494002.7	3761712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-03
6	ALL		493991.6	3761703	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-03
7	ALL		493980.4	3761693	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-03
8	ALL		493969.8	3761686	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03
9	ALL		493957.6	3761681	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03
10	ALL		493943.9	3761674	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-03
11	ALL		493926.2	3761673	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03
12	ALL		493913.5	3761671	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03
13	ALL		493899.8	3761670	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03
14	ALL		493832.4	3761639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03
15	ALL		493822.8	3761647	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03
16	ALL		493811.1	3761658	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03
17	ALL		493809.6	3761669	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03
18	ALL		493817.7	3761682	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03
19	ALL		493833.4	3761690	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03
20	ALL		493853.7	3761695	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03
21	ALL		493871.5	3761693	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
22	ALL		493888.2	3761693	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03
23	ALL		493905.9	3761694	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03
24	ALL		493920.6	3761695	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03
25	ALL		493939.4	3761698	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03
26	ALL		493959.6	3761707	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03
27	ALL		493975.4	3761717	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03
28	ALL		493983.5	3761726	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03
29	ALL		493991.1	3761738	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03
30	ALL		494001.2	3761754	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03
31	ALL		493984.5	3761753	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03
32	ALL		493980.4	3761747	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03
33	ALL		493970.8	3761735	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03
34	ALL		493953.6	3761728	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03
35	ALL		493937.3	3761717	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03
36	ALL		493921.1	3761715	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03
37	ALL		493906.9	3761711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03
38	ALL		493887.2	3761711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03
39	ALL		493870.4	3761711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03
40	ALL		493857.8	3761711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03
41	ALL		493843.1	3761710	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03
42	ALL		493829.4	3761710	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03
43	ALL		493806.6	3761701	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.71E-04
44	ALL		493799.5	3761684	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-04
45	ALL		493797.5	3761663	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.73E-04
46	ALL		493779.7	3761668	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.27E-04
47	ALL		493775.1	3761688	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.05E-04
48	ALL		493782.8	3761700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.15E-04
49	ALL		493793.4	3761717	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.27E-04
50	ALL		493809.1	3761731	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.52E-04
51	ALL		493821.3	3761732	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.79E-04

52	ALL	493843.6	3761731	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03
53	ALL	493875	3761734	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03
54	ALL	493883.6	3761733	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03
55	ALL	493904.9	3761735	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03
56	ALL	493928.7	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03
57	ALL	493941.4	3761746	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03
58	ALL	493954.1	3761758	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03
59	ALL	493931.8	3761757	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03
60	ALL	493915.5	3761755	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03
61	ALL	493903.4	3761754	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03
62	ALL	493888.7	3761754	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03
63	ALL	493873	3761754	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03
64	ALL	493851.7	3761754	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03
65	ALL	493835.5	3761752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.91E-04
66	ALL	493818.7	3761751	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.51E-04
67	ALL	493742.2	3761651	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.46E-04
68	ALL	493742.2	3761665	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.40E-04
69	ALL	493742.2	3761680	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-04
70	ALL	493746.3	3761695	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.34E-04
71	ALL	493750.3	3761709	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-04
72	ALL	493754.9	3761721	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-04
73	ALL	493757.9	3761733	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-04
74	ALL	493772.1	3761750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.52E-04
75	ALL	493760.4	3761749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-04
76	ALL	493749.3	3761749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.09E-04
77	ALL	493730.5	3761749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-04
78	ALL	493705.7	3761747	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-04
79	ALL	493712.8	3761771	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.26E-04
80	ALL	493739.7	3761768	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E-04
81	ALL	493757.4	3761769	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-04
82	ALL	493780.2	3761771	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.46E-04
83	ALL	493801.5	3761770	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.90E-04
84	ALL	493830.9	3761773	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.52E-04
85	ALL	493850.7	3761774	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03
86	ALL	493872.5	3761774	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03
87	ALL	493893.8	3761777	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03
88	ALL	493908.5	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
89	ALL	493926.2	3761780	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03
90	ALL	493937.8	3761779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03
91	ALL	493952.5	3761780	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03
92	ALL	493967.8	3761780	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03
93	ALL	493975.4	3761784	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-03
94	ALL	493989.5	3761780	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03
95	ALL	494000.2	3761782	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03
96	ALL	494014.9	3761785	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03
97	ALL	494027.1	3761786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03
98	ALL	494049.4	3761786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-03
99	ALL	494066.1	3761786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-03
100	ALL	494171.4	3761821	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-03
101	ALL	494176.5	3761841	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-03
102	ALL	494171.4	3761886	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-03
103	ALL	495006	3761336	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03

104	ALL	495146	3761336	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03
105	ALL	495166	3761336	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03
106	ALL	495186	3761336	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03
107	ALL	495206	3761336	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03
108	ALL	495226	3761336	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.98E-04
109	ALL	495246	3761336	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.63E-04
110	ALL	495266	3761336	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.33E-04
111	ALL	495286	3761336	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-04
112	ALL	495306	3761336	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.66E-04
113	ALL	495326	3761336	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-04
114	ALL	495346	3761336	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-04
115	ALL	495366	3761336	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-04
116	ALL	495386	3761336	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-04
117	ALL	495406	3761336	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.12E-04
118	ALL	495006	3761356	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-03
119	ALL	495026	3761356	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-03
120	ALL	495046	3761356	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03
121	ALL	495066	3761356	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03
122	ALL	495086	3761356	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03
123	ALL	495106	3761356	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03
124	ALL	495126	3761356	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03
125	ALL	495146	3761356	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03
126	ALL	495166	3761356	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03
127	ALL	495186	3761356	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03
128	ALL	495206	3761356	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03
129	ALL	495226	3761356	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03
130	ALL	495246	3761356	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.91E-04
131	ALL	495266	3761356	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.57E-04
132	ALL	495286	3761356	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.18E-04
133	ALL	495306	3761356	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.75E-04
134	ALL	495326	3761356	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-04
135	ALL	495346	3761356	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.10E-04
136	ALL	495366	3761356	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-04
137	ALL	495386	3761356	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-04
138	ALL	495406	3761356	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-04
139	ALL	495426	3761356	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.97E-04
140	ALL	495446	3761356	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-04
141	ALL	495006	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-03
142	ALL	495026	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03
143	ALL	495046	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03
144	ALL	495066	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-03
145	ALL	495086	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03
146	ALL	495106	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03
147	ALL	495126	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03
148	ALL	495146	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03
149	ALL	495166	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03
150	ALL	495186	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03
151	ALL	495206	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03
152	ALL	495226	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03
153	ALL	495246	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03
154	ALL	495266	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.71E-04
155	ALL	495286	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-04

156	ALL	495306	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.83E-04
157	ALL	495326	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-04
158	ALL	495346	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.19E-04
159	ALL	495366	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-04
160	ALL	495386	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-04
161	ALL	495406	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-04
162	ALL	495426	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E-04
163	ALL	495446	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-04
164	ALL	495466	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.48E-04
165	ALL	495486	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-04
166	ALL	494986	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-03
167	ALL	495006	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03
168	ALL	495026	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03
169	ALL	495046	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03
170	ALL	495066	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03
171	ALL	495086	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03
172	ALL	495106	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03
173	ALL	495126	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03
174	ALL	495146	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03
175	ALL	495166	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03
176	ALL	495186	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03
177	ALL	495206	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03
178	ALL	495226	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03
179	ALL	495246	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03
180	ALL	495266	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.74E-04
181	ALL	495286	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.31E-04
182	ALL	495306	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.93E-04
183	ALL	495326	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.57E-04
184	ALL	495346	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.23E-04
185	ALL	495366	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-04
186	ALL	495386	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-04
187	ALL	495406	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-04
188	ALL	495426	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-04
189	ALL	495446	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.77E-04
190	ALL	495466	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-04
191	ALL	495486	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.32E-04
192	ALL	495506	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.17E-04
193	ALL	494966	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-03
194	ALL	494986	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-03
195	ALL	495006	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-03
196	ALL	495026	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-03
197	ALL	495046	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-03
198	ALL	495066	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-03
199	ALL	495086	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03
200	ALL	495106	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-03
201	ALL	495126	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03
202	ALL	495146	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03
203	ALL	495166	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03
204	ALL	495186	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
205	ALL	495206	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03
206	ALL	495226	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03
207	ALL	495246	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03

208	ALL	495266	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.77E-04
209	ALL	495286	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.37E-04
210	ALL	495306	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-04
211	ALL	495326	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-04
212	ALL	495346	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.22E-04
213	ALL	495366	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.91E-04
214	ALL	495386	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.62E-04
215	ALL	495406	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-04
216	ALL	495426	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.07E-04
217	ALL	495446	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-04
218	ALL	495466	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-04
219	ALL	495486	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.35E-04
220	ALL	495506	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.17E-04
221	ALL	495526	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-04
222	ALL	494966	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-03
223	ALL	494986	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-03
224	ALL	495006	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-03
225	ALL	495026	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-03
226	ALL	495046	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03
227	ALL	495066	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03
228	ALL	495086	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03
229	ALL	495106	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-03
230	ALL	495126	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03
231	ALL	495146	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03
232	ALL	495166	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03
233	ALL	495186	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03
234	ALL	495206	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03
235	ALL	495226	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03
236	ALL	495246	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03
237	ALL	495266	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-04
238	ALL	495286	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.41E-04
239	ALL	495306	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.03E-04
240	ALL	495326	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.62E-04
241	ALL	495346	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-04
242	ALL	495366	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.86E-04
243	ALL	495386	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-04
244	ALL	495406	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-04
245	ALL	495426	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-04
246	ALL	495446	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-04
247	ALL	495466	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.59E-04
248	ALL	495486	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-04
249	ALL	495506	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.17E-04
250	ALL	495526	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.98E-04
251	ALL	494846	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-03
252	ALL	494946	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-03
253	ALL	494966	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-03
254	ALL	494986	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-03
255	ALL	495006	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-03
256	ALL	495026	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-03
257	ALL	495046	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03
258	ALL	495066	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03
259	ALL	495086	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-03

260	ALL	495106	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03
261	ALL	495126	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03
262	ALL	495146	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03
263	ALL	495166	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03
264	ALL	495186	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03
265	ALL	495206	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03
266	ALL	495226	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03
267	ALL	495246	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03
268	ALL	495266	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.77E-04
269	ALL	495286	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.39E-04
270	ALL	495306	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-04
271	ALL	495326	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.57E-04
272	ALL	495346	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-04
273	ALL	495366	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.82E-04
274	ALL	495386	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.56E-04
275	ALL	495406	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-04
276	ALL	495426	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.03E-04
277	ALL	495446	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.77E-04
278	ALL	495466	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-04
279	ALL	495486	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.35E-04
280	ALL	495506	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-04
281	ALL	495526	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-04
282	ALL	494866	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-03
283	ALL	494886	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-03
284	ALL	494906	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-03
285	ALL	494926	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-03
286	ALL	494946	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-03
287	ALL	494966	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-03
288	ALL	494986	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-03
289	ALL	495006	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-03
290	ALL	495026	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-03
291	ALL	495046	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03
292	ALL	495066	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03
293	ALL	495086	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03
294	ALL	495106	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-03
295	ALL	495126	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03
296	ALL	495146	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03
297	ALL	495166	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03
298	ALL	495186	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
299	ALL	495206	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03
300	ALL	495226	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03
301	ALL	495246	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03
302	ALL	495266	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.69E-04
303	ALL	495286	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.31E-04
304	ALL	495306	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.92E-04
305	ALL	495326	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-04
306	ALL	495346	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.07E-04
307	ALL	495366	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E-04
308	ALL	495386	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.53E-04
309	ALL	495406	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.26E-04
310	ALL	495426	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-04
311	ALL	495446	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-04

312	ALL	495466	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-04
313	ALL	495486	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-04
314	ALL	495506	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-04
315	ALL	495526	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.89E-04
316	ALL	494866	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-03
317	ALL	494886	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-03
318	ALL	494906	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-03
319	ALL	494926	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-03
320	ALL	494946	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-03
321	ALL	494966	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03
322	ALL	494986	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-03
323	ALL	495006	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-03
324	ALL	495026	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-03
325	ALL	495046	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03
326	ALL	495066	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03
327	ALL	495086	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03
328	ALL	495106	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03
329	ALL	495126	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03
330	ALL	495146	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03
331	ALL	495166	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03
332	ALL	495186	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03
333	ALL	495206	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03
334	ALL	495226	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03
335	ALL	495246	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.96E-04
336	ALL	495266	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.57E-04
337	ALL	495286	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.18E-04
338	ALL	495306	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.80E-04
339	ALL	495326	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.40E-04
340	ALL	495346	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.01E-04
341	ALL	495366	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-04
342	ALL	495386	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-04
343	ALL	495406	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-04
344	ALL	495426	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.93E-04
345	ALL	495446	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-04
346	ALL	495466	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-04
347	ALL	495486	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-04
348	ALL	495506	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-04
349	ALL	495526	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-04
350	ALL	494866	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-03
351	ALL	494886	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-03
352	ALL	494906	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-03
353	ALL	494926	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-03
354	ALL	494946	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-03
355	ALL	494966	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-03
356	ALL	494986	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-03
357	ALL	495006	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-03
358	ALL	495026	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-03
359	ALL	495046	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-03
360	ALL	495066	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03
361	ALL	495086	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03
362	ALL	495106	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03
363	ALL	495126	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03

364	ALL	495146	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03
365	ALL	495166	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03
366	ALL	495186	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03
367	ALL	495206	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03
368	ALL	495226	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03
369	ALL	495246	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.82E-04
370	ALL	495266	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.42E-04
371	ALL	495286	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.04E-04
372	ALL	495306	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.66E-04
373	ALL	495326	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-04
374	ALL	495346	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.94E-04
375	ALL	495366	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-04
376	ALL	495386	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-04
377	ALL	495406	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.12E-04
378	ALL	495426	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.83E-04
379	ALL	495446	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-04
380	ALL	495466	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-04
381	ALL	495486	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-04
382	ALL	495506	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-04
383	ALL	495526	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-04
384	ALL	494866	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-03
385	ALL	494886	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-03
386	ALL	494906	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-03
387	ALL	494926	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-03
388	ALL	494946	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-03
389	ALL	494966	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-03
390	ALL	494986	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-03
391	ALL	495006	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-03
392	ALL	495026	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-03
393	ALL	495046	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03
394	ALL	495066	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-03
395	ALL	495086	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03
396	ALL	495106	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03
397	ALL	495126	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03
398	ALL	495146	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03
399	ALL	495166	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03
400	ALL	495186	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03
401	ALL	495206	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03
402	ALL	495226	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03
403	ALL	495246	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.62E-04
404	ALL	495266	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.23E-04
405	ALL	495286	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.86E-04
406	ALL	495306	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-04
407	ALL	495326	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.15E-04
408	ALL	495346	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-04
409	ALL	495366	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-04
410	ALL	495386	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-04
411	ALL	495406	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-04
412	ALL	495426	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-04
413	ALL	495446	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-04
414	ALL	495466	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-04
415	ALL	495486	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-04

416	ALL	495506	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.86E-04
417	ALL	495526	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-04
418	ALL	494866	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-03
419	ALL	494886	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-03
420	ALL	494906	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-03
421	ALL	494926	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-03
422	ALL	494946	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-03
423	ALL	494966	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-03
424	ALL	494986	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-03
425	ALL	495006	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-03
426	ALL	495026	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-03
427	ALL	495046	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-03
428	ALL	495066	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03
429	ALL	495086	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03
430	ALL	495106	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03
431	ALL	495126	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03
432	ALL	495146	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03
433	ALL	495166	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03
434	ALL	495186	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03
435	ALL	495206	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03
436	ALL	495226	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E-04
437	ALL	495246	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.38E-04
438	ALL	495266	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-04
439	ALL	495286	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.64E-04
440	ALL	495306	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-04
441	ALL	495326	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-04
442	ALL	495346	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.68E-04
443	ALL	495366	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.39E-04
444	ALL	495386	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.12E-04
445	ALL	495406	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-04
446	ALL	495426	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-04
447	ALL	495446	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-04
448	ALL	495466	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-04
449	ALL	495486	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-04
450	ALL	495506	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-04
451	ALL	495526	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-04
452	ALL	494846	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-03
453	ALL	494866	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-03
454	ALL	494886	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-03
455	ALL	494906	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-03
456	ALL	494926	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-03
457	ALL	494946	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-03
458	ALL	494966	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-03
459	ALL	494986	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03
460	ALL	495006	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-03
461	ALL	495026	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03
462	ALL	495046	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03
463	ALL	495066	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03
464	ALL	495086	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03
465	ALL	495106	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03
466	ALL	495126	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03
467	ALL	495146	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03

468	ALL	495166	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03
469	ALL	495186	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03
470	ALL	495206	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.87E-04
471	ALL	495226	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.45E-04
472	ALL	495246	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.06E-04
473	ALL	495266	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.69E-04
474	ALL	495286	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-04
475	ALL	495306	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.03E-04
476	ALL	495326	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E-04
477	ALL	495346	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.45E-04
478	ALL	495366	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-04
479	ALL	495386	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.92E-04
480	ALL	495406	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E-04
481	ALL	495426	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.44E-04
482	ALL	495446	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-04
483	ALL	495466	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.99E-04
484	ALL	495486	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-04
485	ALL	495506	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-04
486	ALL	495526	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-04
487	ALL	494846	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-03
488	ALL	494866	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-03
489	ALL	494886	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-03
490	ALL	494906	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-03
491	ALL	494926	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-03
492	ALL	494946	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-03
493	ALL	494966	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-03
494	ALL	494986	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03
495	ALL	495006	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-03
496	ALL	495026	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-03
497	ALL	495046	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03
498	ALL	495066	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03
499	ALL	495086	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03
500	ALL	495106	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03
501	ALL	495126	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03
502	ALL	495146	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03
503	ALL	495166	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03
504	ALL	495186	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.96E-04
505	ALL	495206	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.52E-04
506	ALL	495226	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.12E-04
507	ALL	495246	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.74E-04
508	ALL	495266	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-04
509	ALL	495286	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-04
510	ALL	495306	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-04
511	ALL	495326	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-04
512	ALL	495346	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-04
513	ALL	495366	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E-04
514	ALL	495386	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-04
515	ALL	495406	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E-04
516	ALL	495426	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.26E-04
517	ALL	495446	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-04
518	ALL	495466	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-04
519	ALL	495486	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-04

520	ALL	495506	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-04
521	ALL	495526	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-04
522	ALL	494846	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-03
523	ALL	494866	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-03
524	ALL	494886	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-03
525	ALL	494906	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-03
526	ALL	494926	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-03
527	ALL	494946	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-03
528	ALL	494966	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-03
529	ALL	494986	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03
530	ALL	495006	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03
531	ALL	495026	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03
532	ALL	495046	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03
533	ALL	495066	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03
534	ALL	495086	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03
535	ALL	495106	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03
536	ALL	495126	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03
537	ALL	495146	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03
538	ALL	495166	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03
539	ALL	495186	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.60E-04
540	ALL	495206	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-04
541	ALL	495226	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E-04
542	ALL	495246	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-04
543	ALL	495266	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-04
544	ALL	495286	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-04
545	ALL	495306	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-04
546	ALL	495326	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-04
547	ALL	495346	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.97E-04
548	ALL	495366	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-04
549	ALL	495386	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.48E-04
550	ALL	495406	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-04
551	ALL	495426	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-04
552	ALL	495446	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.86E-04
553	ALL	495466	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-04
554	ALL	495486	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-04
555	ALL	495506	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-04
556	ALL	495526	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-04
557	ALL	494846	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-03
558	ALL	494866	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-03
559	ALL	494886	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-03
560	ALL	494906	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-03
561	ALL	494926	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-03
562	ALL	494946	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-03
563	ALL	494966	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03
564	ALL	494986	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03
565	ALL	495006	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03
566	ALL	495026	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03
567	ALL	495046	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03
568	ALL	495066	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03
569	ALL	495086	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
570	ALL	495106	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03
571	ALL	495126	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03

572	ALL	495146	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03
573	ALL	495166	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.60E-04
574	ALL	495186	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-04
575	ALL	495206	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E-04
576	ALL	495226	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.46E-04
577	ALL	495246	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.12E-04
578	ALL	495266	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-04
579	ALL	495286	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.51E-04
580	ALL	495306	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-04
581	ALL	495326	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.97E-04
582	ALL	495346	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-04
583	ALL	495366	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-04
584	ALL	495386	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.27E-04
585	ALL	495406	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-04
586	ALL	495426	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-04
587	ALL	495446	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-04
588	ALL	495466	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-04
589	ALL	495486	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-04
590	ALL	495506	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-04
591	ALL	495526	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-04
592	ALL	494846	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-03
593	ALL	494866	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-03
594	ALL	494886	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-03
595	ALL	494906	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-03
596	ALL	494926	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-03
597	ALL	494946	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03
598	ALL	494966	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03
599	ALL	494986	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03
600	ALL	495006	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03
601	ALL	495026	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03
602	ALL	495046	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03
603	ALL	495066	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03
604	ALL	495086	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03
605	ALL	495106	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03
606	ALL	495126	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03
607	ALL	495146	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.58E-04
608	ALL	495166	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-04
609	ALL	495186	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.79E-04
610	ALL	495206	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.44E-04
611	ALL	495226	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-04
612	ALL	495246	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E-04
613	ALL	495266	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-04
614	ALL	495286	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-04
615	ALL	495306	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E-04
616	ALL	495326	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-04
617	ALL	495346	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.48E-04
618	ALL	495366	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.26E-04
619	ALL	495386	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-04
620	ALL	495406	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-04
621	ALL	495426	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-04
622	ALL	495446	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-04
623	ALL	495466	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-04

624	ALL	495486	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-04
625	ALL	495506	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-04
626	ALL	495526	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-04
627	ALL	494846	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-03
628	ALL	494866	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-03
629	ALL	494886	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-03
630	ALL	494906	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03
631	ALL	494926	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-03
632	ALL	494946	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-03
633	ALL	494966	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03
634	ALL	494986	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03
635	ALL	495006	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03
636	ALL	495026	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03
637	ALL	495046	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03
638	ALL	495066	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03
639	ALL	495086	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03
640	ALL	495106	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03
641	ALL	495126	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.56E-04
642	ALL	495146	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.14E-04
643	ALL	495166	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.76E-04
644	ALL	495186	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.41E-04
645	ALL	495206	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.08E-04
646	ALL	495226	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-04
647	ALL	495246	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-04
648	ALL	495266	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.20E-04
649	ALL	495286	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.93E-04
650	ALL	495306	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E-04
651	ALL	495326	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.44E-04
652	ALL	495346	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.21E-04
653	ALL	495366	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.01E-04
654	ALL	495386	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.82E-04
655	ALL	495406	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-04
656	ALL	495426	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.43E-04
657	ALL	495446	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-04
658	ALL	495466	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-04
659	ALL	495486	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-04
660	ALL	495506	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-04
661	ALL	495526	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-04
662	ALL	494846	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-03
663	ALL	494866	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03
664	ALL	494886	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03
665	ALL	494906	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03
666	ALL	494926	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03
667	ALL	494946	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03
668	ALL	494966	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03
669	ALL	494986	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03
670	ALL	495006	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03
671	ALL	495026	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03
672	ALL	495046	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03
673	ALL	495066	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03
674	ALL	495086	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.88E-04
675	ALL	495106	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.47E-04

676	ALL	495126	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-04
677	ALL	495146	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-04
678	ALL	495166	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-04
679	ALL	495186	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.03E-04
680	ALL	495206	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-04
681	ALL	495226	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.42E-04
682	ALL	495246	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E-04
683	ALL	495266	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.90E-04
684	ALL	495286	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.65E-04
685	ALL	495306	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.41E-04
686	ALL	495326	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-04
687	ALL	495346	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-04
688	ALL	495366	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-04
689	ALL	495386	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-04
690	ALL	495406	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-04
691	ALL	495426	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-04
692	ALL	495446	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-04
693	ALL	495466	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-04
694	ALL	495486	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-04
695	ALL	495506	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-04
696	ALL	495526	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-04
697	ALL	494846	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-03
698	ALL	494866	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-03
699	ALL	494886	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-03
700	ALL	494906	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03
701	ALL	494926	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03
702	ALL	494946	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03
703	ALL	494966	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03
704	ALL	494986	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03
705	ALL	495006	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03
706	ALL	495026	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03
707	ALL	495046	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03
708	ALL	495066	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.73E-04
709	ALL	495086	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-04
710	ALL	495106	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-04
711	ALL	495126	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-04
712	ALL	495146	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-04
713	ALL	495166	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.95E-04
714	ALL	495186	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-04
715	ALL	495206	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-04
716	ALL	495226	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.08E-04
717	ALL	495246	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-04
718	ALL	495266	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.59E-04
719	ALL	495286	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-04
720	ALL	495306	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-04
721	ALL	495326	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-04
722	ALL	495346	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-04
723	ALL	495366	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-04
724	ALL	495386	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-04
725	ALL	495406	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-04
726	ALL	495426	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-04
727	ALL	495446	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-04

728	ALL	495466	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-04
729	ALL	495486	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-04
730	ALL	495506	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-04
731	ALL	495526	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-04
732	ALL	495546	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-04
733	ALL	494846	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03
734	ALL	494866	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03
735	ALL	494886	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03
736	ALL	494906	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03
737	ALL	494926	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03
738	ALL	494946	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03
739	ALL	494966	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03
740	ALL	494986	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03
741	ALL	495006	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03
742	ALL	495026	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03
743	ALL	495046	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.59E-04
744	ALL	495066	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-04
745	ALL	495086	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.84E-04
746	ALL	495106	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.48E-04
747	ALL	495126	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.15E-04
748	ALL	495146	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-04
749	ALL	495166	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-04
750	ALL	495186	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-04
751	ALL	495206	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-04
752	ALL	495226	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-04
753	ALL	495246	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E-04
754	ALL	495266	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-04
755	ALL	495286	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-04
756	ALL	495306	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-04
757	ALL	495326	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.68E-04
758	ALL	495346	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-04
759	ALL	495366	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-04
760	ALL	495386	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-04
761	ALL	495406	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-04
762	ALL	495426	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-04
763	ALL	495446	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-04
764	ALL	495466	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-04
765	ALL	495486	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-04
766	ALL	495506	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-04
767	ALL	495526	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-04
768	ALL	495546	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-04
769	ALL	494846	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-03
770	ALL	494866	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03
771	ALL	494886	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03
772	ALL	494906	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03
773	ALL	494926	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03
774	ALL	494946	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03
775	ALL	494966	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03
776	ALL	494986	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03
777	ALL	495006	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.95E-04
778	ALL	495026	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.50E-04
779	ALL	495046	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.10E-04

780	ALL	495066	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.73E-04
781	ALL	495086	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-04
782	ALL	495106	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-04
783	ALL	495126	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-04
784	ALL	495146	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-04
785	ALL	495166	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E-04
786	ALL	495186	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.91E-04
787	ALL	495206	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-04
788	ALL	495226	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.42E-04
789	ALL	495246	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-04
790	ALL	495266	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-04
791	ALL	495286	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.82E-04
792	ALL	495306	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-04
793	ALL	495326	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-04
794	ALL	495346	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-04
795	ALL	495366	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-04
796	ALL	495386	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-04
797	ALL	495406	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-04
798	ALL	495426	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-04
799	ALL	495446	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-04
800	ALL	495466	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-04
801	ALL	495486	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-04
802	ALL	495506	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-04
803	ALL	495526	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-04
804	ALL	495546	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-04
805	ALL	495566	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-04
806	ALL	494846	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03
807	ALL	494866	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03
808	ALL	494886	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03
809	ALL	494906	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03
810	ALL	494926	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03
811	ALL	494946	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03
812	ALL	494966	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03
813	ALL	494986	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.84E-04
814	ALL	495006	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.41E-04
815	ALL	495026	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.01E-04
816	ALL	495046	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.63E-04
817	ALL	495066	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.29E-04
818	ALL	495086	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.97E-04
819	ALL	495106	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-04
820	ALL	495126	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-04
821	ALL	495146	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-04
822	ALL	495166	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.79E-04
823	ALL	495186	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-04
824	ALL	495206	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.36E-04
825	ALL	495226	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-04
826	ALL	495246	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-04
827	ALL	495266	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-04
828	ALL	495286	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-04
829	ALL	495306	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-04
830	ALL	495326	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-04
831	ALL	495346	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-04

832	ALL	495366	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-04
833	ALL	495386	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-04
834	ALL	495406	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-04
835	ALL	495426	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-04
836	ALL	495446	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-04
837	ALL	495466	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-04
838	ALL	495486	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-04
839	ALL	495506	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-04
840	ALL	495526	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-04
841	ALL	495546	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-04
842	ALL	495566	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-04
843	ALL	494846	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03
844	ALL	494866	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03
845	ALL	494886	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
846	ALL	494906	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03
847	ALL	494926	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03
848	ALL	494946	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03
849	ALL	494966	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-04
850	ALL	494986	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-04
851	ALL	495006	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.86E-04
852	ALL	495026	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-04
853	ALL	495046	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.15E-04
854	ALL	495066	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-04
855	ALL	495086	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.53E-04
856	ALL	495106	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.24E-04
857	ALL	495126	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.96E-04
858	ALL	495146	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.69E-04
859	ALL	495166	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-04
860	ALL	495186	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-04
861	ALL	495206	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-04
862	ALL	495226	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.86E-04
863	ALL	495246	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-04
864	ALL	495266	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-04
865	ALL	495286	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-04
866	ALL	495306	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-04
867	ALL	495326	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-04
868	ALL	495346	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-04
869	ALL	495366	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-04
870	ALL	495386	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-04
871	ALL	495406	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-04
872	ALL	495426	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-04
873	ALL	495446	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-04
874	ALL	495466	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-04
875	ALL	495486	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-04
876	ALL	495506	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-04
877	ALL	495526	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-04
878	ALL	495546	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-04
879	ALL	495566	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-04
880	ALL	494966	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.11E-04
881	ALL	494986	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.73E-04
882	ALL	495006	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-04
883	ALL	495026	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.03E-04

884	ALL	495046	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-04
885	ALL	495066	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.42E-04
886	ALL	495086	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.13E-04
887	ALL	495106	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-04
888	ALL	495126	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-04
889	ALL	495146	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.36E-04
890	ALL	495166	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-04
891	ALL	495186	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-04
892	ALL	495206	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-04
893	ALL	495226	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-04
894	ALL	495246	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-04
895	ALL	495266	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-04
896	ALL	495286	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-04
897	ALL	495306	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-04
898	ALL	495326	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-04
899	ALL	495346	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-04
900	ALL	495366	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-04
901	ALL	495386	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-04
902	ALL	495406	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-04
903	ALL	495426	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-04
904	ALL	495446	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-04
905	ALL	495466	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-04
906	ALL	495486	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-04
907	ALL	495506	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-04
908	ALL	495526	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-04
909	ALL	495546	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-04
910	ALL	495566	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-04
911	ALL	495126	3761836	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-04
912	ALL	495146	3761836	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-04
913	ALL	495166	3761836	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-04
914	ALL	495186	3761836	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-04
915	ALL	495206	3761836	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-04
916	ALL	495226	3761836	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-04
917	ALL	495366	3761836	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-04
918	ALL	495386	3761836	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-04
919	ALL	495406	3761836	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-04
920	ALL	495426	3761836	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-04
921	ALL	495446	3761836	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-04
922	ALL	495466	3761836	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-04
923	ALL	495486	3761836	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-04
924	ALL	495506	3761836	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-04
925	ALL	495526	3761836	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-04
926	ALL	495546	3761836	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04
927	ALL	495566	3761836	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-04
928	ALL	495126	3761856	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.98E-04
929	ALL	495146	3761856	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-04
930	ALL	495166	3761856	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-04
931	ALL	495186	3761856	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-04
932	ALL	495206	3761856	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-04
933	ALL	495226	3761856	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E-04
934	ALL	495386	3761856	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-04
935	ALL	495406	3761856	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-04

936	ALL	495426	3761856	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-04
937	ALL	495446	3761856	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-04
938	ALL	495466	3761856	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-04
939	ALL	495486	3761856	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-04
940	ALL	495506	3761856	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-04
941	ALL	495526	3761856	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-04
942	ALL	495546	3761856	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-04
943	ALL	495566	3761856	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-04
944	ALL	495126	3761876	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.71E-04
945	ALL	495146	3761876	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-04
946	ALL	495166	3761876	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-04
947	ALL	495186	3761876	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-04
948	ALL	495206	3761876	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-04
949	ALL	495226	3761876	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-04
950	ALL	495386	3761876	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-04
951	ALL	495406	3761876	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-04
952	ALL	495426	3761876	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-04
953	ALL	495446	3761876	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-04
954	ALL	495466	3761876	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-04
955	ALL	495486	3761876	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-04
956	ALL	495506	3761876	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-04
957	ALL	495526	3761876	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-04
958	ALL	495546	3761876	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04
959	ALL	495566	3761876	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-04
960	ALL	495126	3761896	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-04
961	ALL	495146	3761896	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-04
962	ALL	495166	3761896	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-04
963	ALL	495186	3761896	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-04
964	ALL	495206	3761896	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-04
965	ALL	495226	3761896	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-04
966	ALL	495386	3761896	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-04
967	ALL	495406	3761896	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-04
968	ALL	495426	3761896	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-04
969	ALL	495446	3761896	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-04
970	ALL	495466	3761896	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-04
971	ALL	495486	3761896	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-04
972	ALL	495506	3761896	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-04
973	ALL	495526	3761896	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04
974	ALL	495546	3761896	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-04
975	ALL	495566	3761896	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-04
976	ALL	495586	3761896	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-04
977	ALL	495126	3761916	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-04
978	ALL	495146	3761916	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-04
979	ALL	495166	3761916	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-04
980	ALL	495186	3761916	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-04
981	ALL	495206	3761916	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-04
982	ALL	495226	3761916	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-04
983	ALL	495386	3761916	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-04
984	ALL	495406	3761916	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-04
985	ALL	495426	3761916	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-04
986	ALL	495446	3761916	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-04
987	ALL	495466	3761916	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-04

988	ALL	495486	3761916	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04
989	ALL	495506	3761916	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-04
990	ALL	495526	3761916	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04
991	ALL	495546	3761916	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-04
992	ALL	495566	3761916	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-04
993	ALL	495586	3761916	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04
994	ALL	495126	3761936	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-04
995	ALL	495146	3761936	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-04
996	ALL	495166	3761936	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-04
997	ALL	495186	3761936	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-04
998	ALL	495206	3761936	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-04
999	ALL	495226	3761936	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-04
1000	ALL	495146	3761956	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-04
1001	ALL	495166	3761956	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-04
1002	ALL	495186	3761956	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-04
1003	ALL	495206	3761956	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-04
1004	ALL	495226	3761956	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-04
1005	ALL	495146	3761976	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-04
1006	ALL	495166	3761976	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-04
1007	ALL	495186	3761976	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-04
1008	ALL	495206	3761976	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-04
1009	ALL	495226	3761976	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-04
1010	ALL	495146	3761996	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-04
1011	ALL	495166	3761996	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-04
1012	ALL	495186	3761996	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-04
1013	ALL	495206	3761996	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-04
1014	ALL	495226	3761996	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-04
1015	ALL	495146	3762016	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-04
1016	ALL	495166	3762016	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-04
1017	ALL	495186	3762016	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-04
1018	ALL	495206	3762016	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-04
1019	ALL	495226	3762016	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-04
1020	ALL	495146	3762036	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-04
1021	ALL	495166	3762036	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-04
1022	ALL	495186	3762036	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-04
1023	ALL	495206	3762036	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-04
1024	ALL	495226	3762036	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-04
1025	ALL	495146	3762056	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-04
1026	ALL	495166	3762056	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-04
1027	ALL	495186	3762056	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-04
1028	ALL	495206	3762056	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-04
1029	ALL	495226	3762056	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-04
1030	ALL	494031.1	3761757	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03
1031	ALL	494022.5	3761743	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03
1032	ALL	494020.5	3761734	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-03
1033	ALL	494013.4	3761724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03
1034	ALL	494002.7	3761712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-03
1035	ALL	493991.6	3761703	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-03
1036	ALL	493980.4	3761693	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-03
1037	ALL	493969.8	3761686	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03
1038	ALL	493957.6	3761681	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03
1039	ALL	493943.9	3761674	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-03

1040	ALL	493926.2	3761673	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03
1041	ALL	493913.5	3761671	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03
1042	ALL	493899.8	3761670	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03
1043	ALL	493832.4	3761639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03
1044	ALL	493822.8	3761647	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03
1045	ALL	493811.1	3761658	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03
1046	ALL	493809.6	3761669	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03
1047	ALL	493817.7	3761682	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03
1048	ALL	493833.4	3761690	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03
1049	ALL	493853.7	3761695	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03
1050	ALL	493871.5	3761693	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
1051	ALL	493888.2	3761693	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03
1052	ALL	493905.9	3761694	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03
1053	ALL	493920.6	3761695	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03
1054	ALL	493939.4	3761698	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03
1055	ALL	493959.6	3761707	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03
1056	ALL	493975.4	3761717	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03
1057	ALL	493983.5	3761726	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03
1058	ALL	493991.1	3761738	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03
1059	ALL	494001.2	3761754	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03
1060	ALL	493984.5	3761753	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03
1061	ALL	493980.4	3761747	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03
1062	ALL	493970.8	3761735	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03
1063	ALL	493953.6	3761728	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03
1064	ALL	493937.3	3761717	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03
1065	ALL	493921.1	3761715	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03
1066	ALL	493906.9	3761711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03
1067	ALL	493887.2	3761711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03
1068	ALL	493870.4	3761711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03
1069	ALL	493857.8	3761711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03
1070	ALL	493843.1	3761710	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03
1071	ALL	493829.4	3761710	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03
1072	ALL	493806.6	3761701	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.71E-04
1073	ALL	493799.5	3761684	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-04
1074	ALL	493797.5	3761663	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.73E-04
1075	ALL	493779.7	3761668	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.27E-04
1076	ALL	493775.1	3761688	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.05E-04
1077	ALL	493782.8	3761700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.15E-04
1078	ALL	493793.4	3761717	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.27E-04
1079	ALL	493809.1	3761731	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.52E-04
1080	ALL	493821.3	3761732	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.79E-04
1081	ALL	493843.6	3761731	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03
1082	ALL	493875	3761734	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03
1083	ALL	493883.6	3761733	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03
1084	ALL	493904.9	3761735	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03
1085	ALL	493928.7	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03
1086	ALL	493941.4	3761746	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03
1087	ALL	493954.1	3761758	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03
1088	ALL	493931.8	3761757	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03
1089	ALL	493915.5	3761755	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03
1090	ALL	493903.4	3761754	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03
1091	ALL	493888.7	3761754	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03

1092	ALL	493873	3761754	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03
1093	ALL	493851.7	3761754	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03
1094	ALL	493835.5	3761752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.91E-04
1095	ALL	493818.7	3761751	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.51E-04
1096	ALL	493742.2	3761651	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.46E-04
1097	ALL	493742.2	3761665	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.40E-04
1098	ALL	493742.2	3761680	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-04
1099	ALL	493746.3	3761695	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.34E-04
1100	ALL	493750.3	3761709	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-04
1101	ALL	493754.9	3761721	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-04
1102	ALL	493757.9	3761733	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-04
1103	ALL	493772.1	3761750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.52E-04
1104	ALL	493760.4	3761749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-04
1105	ALL	493749.3	3761749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.09E-04
1106	ALL	493730.5	3761749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-04
1107	ALL	493705.7	3761747	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-04
1108	ALL	493712.8	3761771	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.26E-04
1109	ALL	493739.7	3761768	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E-04
1110	ALL	493757.4	3761769	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-04
1111	ALL	493780.2	3761771	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.46E-04
1112	ALL	493801.5	3761770	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.90E-04
1113	ALL	493830.9	3761773	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.52E-04
1114	ALL	493850.7	3761774	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03
1115	ALL	493872.5	3761774	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03
1116	ALL	493893.8	3761777	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03
1117	ALL	493908.5	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
1118	ALL	493926.2	3761780	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03
1119	ALL	493937.8	3761779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03
1120	ALL	493952.5	3761780	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03
1121	ALL	493967.8	3761780	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03
1122	ALL	493975.4	3761784	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-03
1123	ALL	493989.5	3761780	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03
1124	ALL	494000.2	3761782	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03
1125	ALL	494014.9	3761785	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03
1126	ALL	494027.1	3761786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03
1127	ALL	494049.4	3761786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-03
1128	ALL	494066.1	3761786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-03
1129	ALL	494171.4	3761821	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-03
1130	ALL	494176.5	3761841	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-03
1131	ALL	494171.4	3761886	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-03
1132	ALL	494831.5	3761815	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03
1133	ALL	494846.3	3761570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-03
1134	ALL	494859.8	3761515	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-03
1135	ALL	494839.6	3761452	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-03
1136	ALL	494863.6	3761459	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-03
1137	ALL	494888	3761461	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-03
1138	ALL	494935.8	3761473	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-03
1139	ALL	494961.9	3761422	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-03
1140	ALL	494996.5	3761368	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-03
1141	ALL	494991.5	3761327	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03
1142	ALL	495039.8	3761351	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03
1143	ALL	495133.9	3761336	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03

1144	ALL	495229.3	3761326	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.76E-04
1145	ALL	495414.8	3761335	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.04E-04
1146	ALL	495539.8	3761406	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-04
1147	ALL	495545.2	3761698	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-04
1148	ALL	495576.1	3761784	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-04
1149	ALL	495589.5	3761934	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-04
1150	ALL	495387.9	3761934	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-04
1151	ALL	495359.7	3761828	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-04
1152	ALL	495237.4	3761820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.43E-04
1153	ALL	495237.4	3762073	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-04
1154	ALL	495127.2	3762069	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-04
1155	ALL	495124.5	3761819	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.58E-04
1156	ALL	494831.5	3761815	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03
1157	ALL	494846.3	3761570	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-03
1158	ALL	494859.8	3761515	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-03
1159	ALL	494839.6	3761452	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-03
1160	ALL	494863.6	3761459	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-03
1161	ALL	494888	3761461	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-03
1162	ALL	494935.8	3761473	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-03
1163	ALL	494961.9	3761422	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-03
1164	ALL	494996.5	3761368	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-03
1165	ALL	494991.5	3761327	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03
1166	ALL	495039.8	3761351	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03
1167	ALL	495133.9	3761336	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03
1168	ALL	495229.3	3761326	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.76E-04
1169	ALL	495414.8	3761335	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.04E-04
1170	ALL	495539.8	3761406	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-04
1171	ALL	495545.2	3761698	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-04
1172	ALL	495576.1	3761784	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-04
1173	ALL	495589.5	3761934	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-04
1174	ALL	495387.9	3761934	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-04
1175	ALL	495359.7	3761828	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-04
1176	ALL	495237.4	3761820	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.43E-04
1177	ALL	495237.4	3762073	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-04
1178	ALL	495127.2	3762069	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-04
1179	ALL	495124.5	3761819	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.58E-04

Sandalwood Travel Center Gasoline TAC Emissions

Annual Throughput Gasoline: 1,800,000 gal/year
Operating Schedule: 365 days/year

	Benzene lb/1,000 gal	Ethylbenzene lb/1000 gal	Naphthalene lb/1000 gal	Benzene (lb/yr)	Benzene (lb/hr)	Ethylbenzene lb/yr	Ethylbenzene lb/hr	Naphthalene lb/yr	Naphthalene lb/hr
Loading	0.000686	0.000161	0.000000668	1.23	0.000140959	0.00	1.3726E-07	0.25	2.89642E-05
Breathing	0.00011	0.0000257	0.000000107	0.20	2.26027E-05	0.00	2.19863E-08	0.04	4.6444E-06
Refueling	0.00146	0.000342	0.00000142	2.63	0.0003	0.00	2.91781E-07	0.54	6.16438E-05
Hose Permeation	0.0000411	0.00000963	4.01E-08	0.07	8.44521E-06	0.00	8.23973E-09	0.02	1.73532E-06
Spillage	0.0017	0.0031	0.000418	3.06	0.000349315	0.75	8.58904E-05	0.63	7.17771E-05

Source: https://www.aqmd.gov/docs/default-source/permitting/hra-procedures/hraprocedures9-0_103124.pdf?sfvrsn=8
Notes: gal = gallon; lb = pound

Annual Throughput E-85: 75,000 gal/year
Operating Schedule: 365 days/year

	Benzene lb/1,000 gal	Ethylbenzene lb/1000 gal	Naphthalene lb/1000 gal	Benzene (lb/yr)	Benzene (lb/hr)	Ethylbenzene lb/yr	Ethylbenzene lb/hr	Naphthalene lb/yr	Naphthalene lb/hr
Loading	0.000144	0.000033	0.00000014	0.0108	1.23288E-06	0.0000105	1.19863E-09	9.24658E-05	1.05555E-08
Breathing	0.00073	0.000167	0.000000707	0.05475	0.00000625	0.000053025	6.05308E-09	0.00046875	5.35103E-08
Refueling	0.000403	0.0000924	0.000000391	0.030225	3.45034E-06	0.000029325	3.3476E-09	0.000258776	2.95406E-08
Hose Permeation	0.00000864	0.00000198	8.37E-09	0.000648	7.39726E-08	6.2775E-07	7.1661E-11	5.54795E-06	6.33327E-10
Spillage	0.000915	0.00165	0.000226	0.068625	7.8339E-06	0.01695	1.93493E-06	0.000587543	6.70711E-08

Source: https://www.aqmd.gov/docs/default-source/permitting/hra-procedures/hraprocedures9-0_103124.pdf?sfvrsn=8
Notes: gal = gallon; lb = pound

Total Emissions	Benzene (lb/yr)	Benzene (lb/hr)	Ethylbenzene lb/yr	Ethylbenzene lb/hr	Naphthalene lb/yr	Naphthalene lb/hr
Loading	1.25E+00	1.42E-04	1.21E-03	1.38E-07	2.54E-01	2.90E-05
Breathing	2.53E-01	2.89E-05	2.46E-04	2.80E-08	4.12E-02	4.70E-06
Refueling	2.66E+00	3.03E-04	2.59E-03	2.95E-07	5.40E-01	6.17E-05
Hose Permeation	7.46E-02	8.52E-06	7.28E-05	8.31E-09	1.52E-02	1.74E-06
Spillage	3.13E+00	3.57E-04	7.69E-01	8.78E-05	6.29E-01	7.18E-05

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 12/18/2024
** File: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\Sandalwood\Operation
AERMOD\Sandalwood Construction.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\Sandalwood\Constr
   MODELOPT DFAULT CONC
   AVERTIME 1 PERIOD
   URBANOPT 2492442
   POLLUTID VARIOUS
   RUNORNOT RUN
   ERRORFIL "Sandalwood Construction.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     494399.591  3761573.617      728.560
** DESCRSRC Refueling and Hose Permeation
   LOCATION VOL2         VOLUME     494399.591  3761573.617      728.560
** DESCRSRC Spillage
** ------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC 10S Outbound
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.45
** Vertical Dimension = 6.80
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** 494366.696, 3761480.472, 727.68, 3.40, 4.00
** 494381.367, 3761386.162, 728.31, 3.40, 4.00
** 494402.325, 3761344.246, 727.76, 3.40, 4.00
** 494430.618, 3761313.857, 728.40, 3.40, 4.00
** 494467.294, 3761303.378, 729.22, 3.40, 4.00
** 494528.071, 3761315.953, 730.38, 3.40, 4.00
** 494685.255, 3761170.296, 721.78, 3.40, 4.00
** 494741.841, 3761108.471, 719.65, 3.40, 4.00
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   LOCATION L0000001     VOLUME   494395.952 3761483.215 728.53
   LOCATION L0000002     VOLUME   494387.400 3761482.413 728.35
   LOCATION L0000003     VOLUME   494378.847 3761481.611 728.17
   LOCATION L0000004     VOLUME   494370.295 3761480.809 728.00
   LOCATION L0000005     VOLUME   494367.461 3761475.555 727.95
   LOCATION L0000006     VOLUME   494368.781 3761467.067 728.09
   LOCATION L0000007     VOLUME   494370.102 3761458.580 728.12
   LOCATION L0000008     VOLUME   494371.422 3761450.092 728.12
   LOCATION L0000009     VOLUME   494372.742 3761441.604 728.12
   LOCATION L0000010     VOLUME   494374.063 3761433.116 728.13
   LOCATION L0000011     VOLUME   494375.383 3761424.628 728.11
   LOCATION L0000012     VOLUME   494376.703 3761416.140 728.11
   LOCATION L0000013     VOLUME   494378.024 3761407.652 728.11
   LOCATION L0000014     VOLUME   494379.344 3761399.164 728.10
   LOCATION L0000015     VOLUME   494380.664 3761390.676 728.07
   LOCATION L0000016     VOLUME   494383.165 3761382.565 728.08
   LOCATION L0000017     VOLUME   494387.007 3761374.882 728.14
   LOCATION L0000018     VOLUME   494390.848 3761367.199 728.04
   LOCATION L0000019     VOLUME   494394.690 3761359.516 727.99
   LOCATION L0000020     VOLUME   494398.531 3761351.832 727.93
   LOCATION L0000021     VOLUME   494402.398 3761344.167 727.93
   LOCATION L0000022     VOLUME   494408.252 3761337.880 727.97
   LOCATION L0000023     VOLUME   494414.105 3761331.593 728.07
   LOCATION L0000024     VOLUME   494419.958 3761325.306 728.38
   LOCATION L0000025     VOLUME   494425.812 3761319.019 728.42
   LOCATION L0000026     VOLUME   494432.096 3761313.435 728.53
   LOCATION L0000027     VOLUME   494440.355 3761311.075 728.80
   LOCATION L0000028     VOLUME   494448.615 3761308.715 729.00
   LOCATION L0000029     VOLUME   494456.874 3761306.355 729.00
   LOCATION L0000030     VOLUME   494465.134 3761303.996 728.92
   LOCATION L0000031     VOLUME   494473.506 3761304.664 729.03
   LOCATION L0000032     VOLUME   494481.918 3761306.404 729.28
   LOCATION L0000033     VOLUME   494490.329 3761308.144 729.53
   LOCATION L0000034     VOLUME   494498.741 3761309.885 729.79
   LOCATION L0000035     VOLUME   494507.153 3761311.625 730.01
   LOCATION L0000036     VOLUME   494515.565 3761313.366 730.18
   LOCATION L0000037     VOLUME   494523.977 3761315.106 730.35
   LOCATION L0000038     VOLUME   494531.305 3761312.956 730.49
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   LOCATION L0000039     VOLUME   494537.606 3761307.118 730.46
   LOCATION L0000040     VOLUME   494543.906 3761301.279 730.34
   LOCATION L0000041     VOLUME   494550.207 3761295.441 730.19
   LOCATION L0000042     VOLUME   494556.508 3761289.602 729.94
   LOCATION L0000043     VOLUME   494562.808 3761283.763 729.67
   LOCATION L0000044     VOLUME   494569.109 3761277.925 729.16
   LOCATION L0000045     VOLUME   494575.410 3761272.086 728.16
   LOCATION L0000046     VOLUME   494581.711 3761266.247 727.45
   LOCATION L0000047     VOLUME   494588.011 3761260.409 727.01
   LOCATION L0000048     VOLUME   494594.312 3761254.570 726.81
   LOCATION L0000049     VOLUME   494600.613 3761248.731 726.77
   LOCATION L0000050     VOLUME   494606.913 3761242.893 725.78
   LOCATION L0000051     VOLUME   494613.214 3761237.054 725.10
   LOCATION L0000052     VOLUME   494619.515 3761231.216 724.72
   LOCATION L0000053     VOLUME   494625.815 3761225.377 724.59
   LOCATION L0000054     VOLUME   494632.116 3761219.538 724.16
   LOCATION L0000055     VOLUME   494638.417 3761213.700 723.46
   LOCATION L0000056     VOLUME   494644.717 3761207.861 722.94
   LOCATION L0000057     VOLUME   494651.018 3761202.022 722.80
   LOCATION L0000058     VOLUME   494657.319 3761196.184 722.25
   LOCATION L0000059     VOLUME   494663.619 3761190.345 722.00
   LOCATION L0000060     VOLUME   494669.920 3761184.507 722.06
   LOCATION L0000061     VOLUME   494676.221 3761178.668 722.43
   LOCATION L0000062     VOLUME   494682.521 3761172.829 722.25
   LOCATION L0000063     VOLUME   494688.538 3761166.709 722.01
   LOCATION L0000064     VOLUME   494694.338 3761160.372 721.76
   LOCATION L0000065     VOLUME   494700.138 3761154.036 721.64
   LOCATION L0000066     VOLUME   494705.937 3761147.699 721.71
   LOCATION L0000067     VOLUME   494711.737 3761141.362 721.62
   LOCATION L0000068     VOLUME   494717.536 3761135.026 721.33
   LOCATION L0000069     VOLUME   494723.336 3761128.689 720.84
   LOCATION L0000070     VOLUME   494729.136 3761122.352 720.26
   LOCATION L0000071     VOLUME   494734.935 3761116.016 720.09
   LOCATION L0000072     VOLUME   494740.735 3761109.679 719.93
** End of LINE VOLUME Source ID = SLINE1
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC 10N Outbound
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.45
** Vertical Dimension = 6.80
** SZINIT = 3.16
** Nodes = 12
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** 494369.840, 3761483.615, 727.72, 3.40, 4.00
** 494381.367, 3761391.401, 728.34, 3.40, 4.00
** 494399.181, 3761348.438, 727.34, 3.40, 4.00
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** 494426.426, 3761317.001, 728.23, 3.40, 4.00
** 494463.102, 3761305.474, 729.18, 3.40, 4.00
** 494527.023, 3761315.953, 730.37, 3.40, 4.00
** 494680.015, 3761380.922, 733.36, 3.40, 4.00
** 494633.908, 3761428.077, 731.92, 3.40, 4.00
** 494569.987, 3761509.813, 731.18, 3.40, 4.00
** 494513.401, 3761577.925, 730.93, 3.40, 4.00
** 494484.060, 3761620.889, 730.69, 3.40, 4.00
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   LOCATION L0000073     VOLUME   494398.030 3761483.615 728.58
   LOCATION L0000074     VOLUME   494389.440 3761483.615 728.40
   LOCATION L0000075     VOLUME   494380.850 3761483.615 728.21
   LOCATION L0000076     VOLUME   494372.260 3761483.615 728.02
   LOCATION L0000077     VOLUME   494370.605 3761477.493 728.03
   LOCATION L0000078     VOLUME   494371.671 3761468.969 728.11
   LOCATION L0000079     VOLUME   494372.736 3761460.445 728.15
   LOCATION L0000080     VOLUME   494373.802 3761451.922 728.15
   LOCATION L0000081     VOLUME   494374.867 3761443.398 728.15
   LOCATION L0000082     VOLUME   494375.933 3761434.874 728.15
   LOCATION L0000083     VOLUME   494376.998 3761426.351 728.14
   LOCATION L0000084     VOLUME   494378.063 3761417.827 728.14
   LOCATION L0000085     VOLUME   494379.129 3761409.303 728.13
   LOCATION L0000086     VOLUME   494380.194 3761400.780 728.13
   LOCATION L0000087     VOLUME   494381.260 3761392.256 728.10
   LOCATION L0000088     VOLUME   494384.327 3761384.262 728.12
   LOCATION L0000089     VOLUME   494387.617 3761376.327 728.17
   LOCATION L0000090     VOLUME   494390.907 3761368.392 728.09
   LOCATION L0000091     VOLUME   494394.197 3761360.457 727.99
   LOCATION L0000092     VOLUME   494397.487 3761352.522 727.90
   LOCATION L0000093     VOLUME   494401.911 3761345.288 727.93
   LOCATION L0000094     VOLUME   494407.537 3761338.796 727.98
   LOCATION L0000095     VOLUME   494413.162 3761332.305 728.03
   LOCATION L0000096     VOLUME   494418.788 3761325.814 728.28
   LOCATION L0000097     VOLUME   494424.414 3761319.322 728.38
   LOCATION L0000098     VOLUME   494431.690 3761315.346 728.55
   LOCATION L0000099     VOLUME   494439.885 3761312.771 728.80
   LOCATION L0000100     VOLUME   494448.080 3761310.195 729.03
   LOCATION L0000101     VOLUME   494456.275 3761307.620 729.05
   LOCATION L0000102     VOLUME   494464.517 3761305.706 729.03
   LOCATION L0000103     VOLUME   494472.993 3761307.096 729.20
   LOCATION L0000104     VOLUME   494481.470 3761308.485 729.43
   LOCATION L0000105     VOLUME   494489.947 3761309.875 729.65
   LOCATION L0000106     VOLUME   494498.424 3761311.265 729.84
   LOCATION L0000107     VOLUME   494506.901 3761312.654 730.01
   LOCATION L0000108     VOLUME   494515.378 3761314.044 730.18
   LOCATION L0000109     VOLUME   494523.855 3761315.434 730.35
   LOCATION L0000110     VOLUME   494531.974 3761318.056 730.51
   LOCATION L0000111     VOLUME   494539.881 3761321.413 730.69
   LOCATION L0000112     VOLUME   494547.788 3761324.771 730.88
   LOCATION L0000113     VOLUME   494555.694 3761328.128 730.90
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LOCATION L0000114 VOLUME 494563.601 3761331.486 730.88
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LOCATION L0000147 VOLUME 494577.822 3761499.794 730.85
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LOCATION L0000154 VOLUME 494539.690 3761546.281 730.69
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LOCATION L0000156 VOLUME 494528.712 3761559.495 730.47
LOCATION L0000157 VOLUME 494523.223 3761566.103 730.35
LOCATION L0000158 VOLUME 494517.734 3761572.710 730.46
LOCATION L0000159 VOLUME 494512.380 3761579.420 730.51
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** Configuration = Adjacent
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   LOCATION L0000175     VOLUME   494375.677 3761424.592 728.12
   LOCATION L0000176     VOLUME   494377.878 3761416.310 728.13
   LOCATION L0000177     VOLUME   494380.492 3761408.128 728.16
   LOCATION L0000178     VOLUME   494383.105 3761399.945 728.18
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   LOCATION L0000181     VOLUME   494390.947 3761375.397 728.25
   LOCATION L0000182     VOLUME   494393.561 3761367.215 728.16
   LOCATION L0000183     VOLUME   494396.175 3761359.032 728.02
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   LOCATION L0000185     VOLUME   494402.850 3761343.511 727.94
   LOCATION L0000186     VOLUME   494408.686 3761337.208 727.96
   LOCATION L0000187     VOLUME   494414.522 3761330.905 728.08
   LOCATION L0000188     VOLUME   494420.358 3761324.602 728.38
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LOCATION L0000229 VOLUME 494747.019 3761415.056 734.34
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LOCATION L0000231 VOLUME 494762.815 3761421.807 734.74
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   LOCATION L0000245     VOLUME   494819.601 3761521.685 736.87
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** End of LINE VOLUME Source ID = SLINE4
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE5
** DESCRSRC Calimesa Blvd Outbound
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.05
** Vertical Dimension = 6.80
** SZINIT = 3.16
** Nodes = 9
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LOCATION L0000405 VOLUME 494509.138 3761949.744 733.58
LOCATION L0000406 VOLUME 494505.893 3761957.697 733.58
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LOCATION L0000409 VOLUME 494496.157 3761981.557 733.53
LOCATION L0000410 VOLUME 494492.912 3761989.511 733.51
LOCATION L0000411 VOLUME 494489.666 3761997.464 733.50
LOCATION L0000412 VOLUME 494486.421 3762005.418 733.48
LOCATION L0000413 VOLUME 494483.176 3762013.371 733.47
LOCATION L0000414 VOLUME 494479.930 3762021.324 733.46
LOCATION L0000415 VOLUME 494476.685 3762029.278 733.46
LOCATION L0000416 VOLUME 494473.440 3762037.231 733.45
LOCATION L0000417 VOLUME 494470.195 3762045.185 733.42

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   LOCATION L0000420     VOLUME   494460.459 3762069.045 733.23
   LOCATION L0000421     VOLUME   494457.214 3762076.998 733.19
   LOCATION L0000422     VOLUME   494453.968 3762084.951 733.16
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** LINE VOLUME Source ID = SLINE6
** DESCRSRC 5th ST Inbound
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.05
** Vertical Dimension = 6.80
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LOCATION L0000484 VOLUME 494723.316 3761404.942 733.96
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LOCATION L0000489 VOLUME 494762.815 3761421.807 734.74
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   LOCATION L0000497     VOLUME   494810.882 3761470.919 736.19
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   LOCATION L0000499     VOLUME   494813.849 3761487.810 736.30
   LOCATION L0000500     VOLUME   494815.287 3761496.279 736.38
   LOCATION L0000501     VOLUME   494816.725 3761504.747 736.54
   LOCATION L0000502     VOLUME   494818.163 3761513.216 736.71
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   LOCATION L0000504     VOLUME   494820.183 3761530.196 736.99
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   LOCATION L0000513     VOLUME   494814.853 3761607.322 737.47
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   LOCATION L0000523     VOLUME   494808.931 3761693.018 737.79
   LOCATION L0000524     VOLUME   494808.338 3761701.588 737.82
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   LOCATION L0000529     VOLUME   494805.377 3761744.435 737.85
   LOCATION L0000530     VOLUME   494804.785 3761753.005 737.82
   LOCATION L0000531     VOLUME   494804.193 3761761.574 737.80
   LOCATION L0000532     VOLUME   494803.601 3761770.144 737.78
   LOCATION L0000533     VOLUME   494803.009 3761778.714 737.84
** End of LINE VOLUME Source ID = SLINE6
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE7
** DESCRSRC Calimesa Blvd Inbound
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.05
** Vertical Dimension = 6.80
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   LOCATION L0000546     VOLUME   494380.756 3761402.664 728.15
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LOCATION L0000660 VOLUME 494518.874 3761925.884 733.60
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LOCATION L0000663 VOLUME 494509.138 3761949.744 733.58
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   LOCATION L0000675     VOLUME   494470.195 3762045.185 733.42
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   LOCATION L0000677     VOLUME   494463.704 3762061.091 733.29
   LOCATION L0000678     VOLUME   494460.459 3762069.045 733.23
   LOCATION L0000679     VOLUME   494457.214 3762076.998 733.19
   LOCATION L0000680     VOLUME   494453.968 3762084.951 733.16
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** LINE VOLUME Source ID = SLINE8
** DESCRSRC 10S Inbound
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.45
** Vertical Dimension = 6.80
** SZINIT = 3.16
** Nodes = 11
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** 494478.820, 3761545.441, 729.18, 3.40, 4.00
** 494496.635, 3761457.418, 729.29, 3.40, 4.00
** 494527.023, 3761324.336, 730.43, 3.40, 4.00
** 494476.725, 3761308.618, 729.44, 3.40, 4.00
** 494434.809, 3761315.953, 728.66, 3.40, 4.00
** 494400.229, 3761351.581, 728.63, 3.40, 4.00
** 494379.271, 3761406.072, 728.14, 3.40, 4.00
** 494370.888, 3761482.568, 727.75, 3.40, 4.00
** 494399.181, 3761487.807, 728.57, 3.40, 4.00
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   LOCATION L0000681     VOLUME   494427.894 3761665.055 730.30
   LOCATION L0000682     VOLUME   494430.829 3761656.983 730.22
   LOCATION L0000683     VOLUME   494433.765 3761648.910 730.13
   LOCATION L0000684     VOLUME   494436.700 3761640.837 729.96
   LOCATION L0000685     VOLUME   494439.636 3761632.764 729.83
   LOCATION L0000686     VOLUME   494442.572 3761624.691 729.74
   LOCATION L0000687     VOLUME   494445.507 3761616.619 729.71
   LOCATION L0000688     VOLUME   494448.716 3761608.660 729.71
   LOCATION L0000689     VOLUME   494452.409 3761600.905 729.67
   LOCATION L0000690     VOLUME   494456.102 3761593.149 729.60
   LOCATION L0000691     VOLUME   494459.795 3761585.393 729.52
   LOCATION L0000692     VOLUME   494463.489 3761577.638 729.44
   LOCATION L0000693     VOLUME   494467.182 3761569.882 729.33
   LOCATION L0000694     VOLUME   494470.875 3761562.127 729.20
   LOCATION L0000695     VOLUME   494474.568 3761554.371 729.15
   LOCATION L0000696     VOLUME   494478.261 3761546.616 729.17
   LOCATION L0000697     VOLUME   494480.266 3761538.297 729.16
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LOCATION L0000698 VOLUME 494481.970 3761529.877 729.12
LOCATION L0000699 VOLUME 494483.674 3761521.458 729.11
LOCATION L0000700 VOLUME 494485.378 3761513.039 729.12
LOCATION L0000701 VOLUME 494487.082 3761504.620 729.12
LOCATION L0000702 VOLUME 494488.786 3761496.200 729.13
LOCATION L0000703 VOLUME 494490.490 3761487.781 729.15
LOCATION L0000704 VOLUME 494492.194 3761479.362 729.20
LOCATION L0000705 VOLUME 494493.898 3761470.942 729.26
LOCATION L0000706 VOLUME 494495.601 3761462.523 729.32
LOCATION L0000707 VOLUME 494497.387 3761454.121 729.38
LOCATION L0000708 VOLUME 494499.300 3761445.747 729.43
LOCATION L0000709 VOLUME 494501.212 3761437.372 729.50
LOCATION L0000710 VOLUME 494503.124 3761428.998 729.56
LOCATION L0000711 VOLUME 494505.036 3761420.624 729.62
LOCATION L0000712 VOLUME 494506.949 3761412.249 729.69
LOCATION L0000713 VOLUME 494508.861 3761403.875 729.77
LOCATION L0000714 VOLUME 494510.773 3761395.500 729.86
LOCATION L0000715 VOLUME 494512.686 3761387.126 729.95
LOCATION L0000716 VOLUME 494514.598 3761378.751 730.04
LOCATION L0000717 VOLUME 494516.510 3761370.377 730.12
LOCATION L0000718 VOLUME 494518.422 3761362.002 730.16
LOCATION L0000719 VOLUME 494520.335 3761353.628 730.21
LOCATION L0000720 VOLUME 494522.247 3761345.254 730.28
LOCATION L0000721 VOLUME 494524.159 3761336.879 730.34
LOCATION L0000722 VOLUME 494526.072 3761328.505 730.39
LOCATION L0000723 VOLUME 494522.906 3761323.049 730.32
LOCATION L0000724 VOLUME 494514.707 3761320.487 730.16
LOCATION L0000725 VOLUME 494506.508 3761317.925 729.99
LOCATION L0000726 VOLUME 494498.309 3761315.363 729.83
LOCATION L0000727 VOLUME 494490.110 3761312.801 729.71
LOCATION L0000728 VOLUME 494481.911 3761310.238 729.57
LOCATION L0000729 VOLUME 494473.615 3761309.162 729.37
LOCATION L0000730 VOLUME 494465.154 3761310.643 729.33
LOCATION L0000731 VOLUME 494456.692 3761312.123 729.20
LOCATION L0000732 VOLUME 494448.231 3761313.604 729.06
LOCATION L0000733 VOLUME 494439.770 3761315.085 728.82
LOCATION L0000734 VOLUME 494432.334 3761318.503 728.62
LOCATION L0000735 VOLUME 494426.351 3761324.667 728.55
LOCATION L0000736 VOLUME 494420.368 3761330.831 728.54
LOCATION L0000737 VOLUME 494414.386 3761336.995 728.31
LOCATION L0000738 VOLUME 494408.403 3761343.160 728.21
LOCATION L0000739 VOLUME 494402.420 3761349.324 728.03
LOCATION L0000740 VOLUME 494398.275 3761356.662 728.03
LOCATION L0000741 VOLUME 494395.191 3761364.680 728.14
LOCATION L0000742 VOLUME 494392.107 3761372.697 728.27
LOCATION L0000743 VOLUME 494389.024 3761380.714 728.22
LOCATION L0000744 VOLUME 494385.940 3761388.732 728.19
LOCATION L0000745 VOLUME 494382.856 3761396.749 728.16
LOCATION L0000746 VOLUME 494379.773 3761404.767 728.14
LOCATION L0000747 VOLUME 494378.487 3761413.221 728.13

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   LOCATION L0000748     VOLUME   494377.552 3761421.760 728.14
   LOCATION L0000749     VOLUME   494376.616 3761430.298 728.15
   LOCATION L0000750     VOLUME   494375.680 3761438.837 728.16
   LOCATION L0000751     VOLUME   494374.744 3761447.376 728.16
   LOCATION L0000752     VOLUME   494373.809 3761455.915 728.16
   LOCATION L0000753     VOLUME   494372.873 3761464.454 728.16
   LOCATION L0000754     VOLUME   494371.937 3761472.993 728.09
   LOCATION L0000755     VOLUME   494371.001 3761481.532 728.01
   LOCATION L0000756     VOLUME   494378.310 3761483.942 728.15
   LOCATION L0000757     VOLUME   494386.756 3761485.506 728.34
   LOCATION L0000758     VOLUME   494395.202 3761487.070 728.54
** End of LINE VOLUME Source ID = SLINE8
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE9
** DESCRSRC 10N Inbound
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.45
** Vertical Dimension = 6.80
** SZINIT = 3.16
** Nodes = 12
** 494877.019, 3760945.000, 716.96, 3.40, 4.00
** 494826.720, 3761042.454, 718.21, 3.40, 4.00
** 494784.804, 3761144.099, 720.37, 3.40, 4.00
** 494774.325, 3761213.260, 723.52, 3.40, 4.00
** 494766.990, 3761296.043, 728.04, 3.40, 4.00
** 494731.362, 3761408.167, 733.94, 3.40, 4.00
** 494527.023, 3761320.145, 730.40, 3.40, 4.00
** 494464.150, 3761306.522, 729.24, 3.40, 4.00
** 494419.091, 3761325.384, 728.36, 3.40, 4.00
** 494390.798, 3761363.108, 728.17, 3.40, 4.00
** 494367.744, 3761479.424, 727.73, 3.40, 4.00
** 494398.133, 3761487.807, 728.56, 3.40, 4.00
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   LOCATION L0000759     VOLUME   494875.049 3760948.817 716.80
   LOCATION L0000760     VOLUME   494871.109 3760956.450 716.71
   LOCATION L0000761     VOLUME   494867.169 3760964.083 716.80
   LOCATION L0000762     VOLUME   494863.229 3760971.716 717.05
   LOCATION L0000763     VOLUME   494859.290 3760979.350 717.25
   LOCATION L0000764     VOLUME   494855.350 3760986.983 717.39
   LOCATION L0000765     VOLUME   494851.410 3760994.616 717.29
   LOCATION L0000766     VOLUME   494847.470 3761002.249 717.32
   LOCATION L0000767     VOLUME   494843.531 3761009.883 717.41
   LOCATION L0000768     VOLUME   494839.591 3761017.516 717.60
   LOCATION L0000769     VOLUME   494835.651 3761025.149 717.87
   LOCATION L0000770     VOLUME   494831.711 3761032.783 718.23
   LOCATION L0000771     VOLUME   494827.772 3761040.416 718.28
   LOCATION L0000772     VOLUME   494824.319 3761048.275 718.25
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LOCATION L0000773 VOLUME 494821.045 3761056.216 718.29
LOCATION L0000774 VOLUME 494817.770 3761064.157 718.39
LOCATION L0000775 VOLUME 494814.495 3761072.099 718.52
LOCATION L0000776 VOLUME 494811.220 3761080.040 718.66
LOCATION L0000777 VOLUME 494807.946 3761087.981 718.82
LOCATION L0000778 VOLUME 494804.671 3761095.923 718.99
LOCATION L0000779 VOLUME 494801.396 3761103.864 719.13
LOCATION L0000780 VOLUME 494798.121 3761111.805 719.28
LOCATION L0000781 VOLUME 494794.847 3761119.746 719.45
LOCATION L0000782 VOLUME 494791.572 3761127.688 719.67
LOCATION L0000783 VOLUME 494788.297 3761135.629 719.99
LOCATION L0000784 VOLUME 494785.022 3761143.570 720.29
LOCATION L0000785 VOLUME 494783.603 3761152.027 720.53
LOCATION L0000786 VOLUME 494782.316 3761160.520 720.82
LOCATION L0000787 VOLUME 494781.029 3761169.013 721.20
LOCATION L0000788 VOLUME 494779.743 3761177.506 721.57
LOCATION L0000789 VOLUME 494778.456 3761185.999 721.94
LOCATION L0000790 VOLUME 494777.169 3761194.492 722.38
LOCATION L0000791 VOLUME 494775.882 3761202.985 722.84
LOCATION L0000792 VOLUME 494774.595 3761211.478 723.30
LOCATION L0000793 VOLUME 494773.726 3761220.021 723.75
LOCATION L0000794 VOLUME 494772.968 3761228.578 724.25
LOCATION L0000795 VOLUME 494772.210 3761237.134 724.74
LOCATION L0000796 VOLUME 494771.452 3761245.691 725.23
LOCATION L0000797 VOLUME 494770.694 3761254.247 725.67
LOCATION L0000798 VOLUME 494769.935 3761262.804 726.10
LOCATION L0000799 VOLUME 494769.177 3761271.360 726.53
LOCATION L0000800 VOLUME 494768.419 3761279.917 726.99
LOCATION L0000801 VOLUME 494767.661 3761288.473 727.55
LOCATION L0000802 VOLUME 494766.690 3761296.987 728.13
LOCATION L0000803 VOLUME 494764.089 3761305.173 728.77
LOCATION L0000804 VOLUME 494761.488 3761313.360 729.47
LOCATION L0000805 VOLUME 494758.886 3761321.547 730.21
LOCATION L0000806 VOLUME 494756.285 3761329.733 730.87
LOCATION L0000807 VOLUME 494753.683 3761337.920 731.43
LOCATION L0000808 VOLUME 494751.082 3761346.107 731.96
LOCATION L0000809 VOLUME 494748.481 3761354.293 732.42
LOCATION L0000810 VOLUME 494745.879 3761362.480 732.84
LOCATION L0000811 VOLUME 494743.278 3761370.667 733.22
LOCATION L0000812 VOLUME 494740.677 3761378.853 733.42
LOCATION L0000813 VOLUME 494738.075 3761387.040 733.59
LOCATION L0000814 VOLUME 494735.474 3761395.227 733.76
LOCATION L0000815 VOLUME 494732.873 3761403.413 733.95
LOCATION L0000816 VOLUME 494728.054 3761406.743 733.96
LOCATION L0000817 VOLUME 494720.165 3761403.344 733.95
LOCATION L0000818 VOLUME 494712.276 3761399.946 733.93
LOCATION L0000819 VOLUME 494704.387 3761396.547 733.90
LOCATION L0000820 VOLUME 494696.498 3761393.149 733.81
LOCATION L0000821 VOLUME 494688.608 3761389.750 733.70
LOCATION L0000822 VOLUME 494680.719 3761386.352 733.59

LOCATION L0000823 VOLUME 494672.830 3761382.954 733.24
LOCATION L0000824 VOLUME 494664.941 3761379.555 732.58
LOCATION L0000825 VOLUME 494657.052 3761376.157 731.87
LOCATION L0000826 VOLUME 494649.163 3761372.758 730.97
LOCATION L0000827 VOLUME 494641.273 3761369.360 729.45
LOCATION L0000828 VOLUME 494633.384 3761365.962 728.03
LOCATION L0000829 VOLUME 494625.495 3761362.563 726.73
LOCATION L0000830 VOLUME 494617.606 3761359.165 726.58
LOCATION L0000831 VOLUME 494609.717 3761355.766 726.58
LOCATION L0000832 VOLUME 494601.828 3761352.368 726.74
LOCATION L0000833 VOLUME 494593.938 3761348.970 727.61
LOCATION L0000834 VOLUME 494586.049 3761345.571 728.80
LOCATION L0000835 VOLUME 494578.160 3761342.173 730.09
LOCATION L0000836 VOLUME 494570.271 3761338.774 730.79
LOCATION L0000837 VOLUME 494562.382 3761335.376 730.87
LOCATION L0000838 VOLUME 494554.493 3761331.977 730.92
LOCATION L0000839 VOLUME 494546.603 3761328.579 730.88
LOCATION L0000840 VOLUME 494538.714 3761325.181 730.68
LOCATION L0000841 VOLUME 494530.825 3761321.782 730.50
LOCATION L0000842 VOLUME 494522.674 3761319.202 730.32
LOCATION L0000843 VOLUME 494514.279 3761317.383 730.15
LOCATION L0000844 VOLUME 494505.883 3761315.564 729.98
LOCATION L0000845 VOLUME 494497.488 3761313.745 729.81
LOCATION L0000846 VOLUME 494489.093 3761311.926 729.70
LOCATION L0000847 VOLUME 494480.698 3761310.107 729.54
LOCATION L0000848 VOLUME 494472.302 3761308.288 729.28
LOCATION L0000849 VOLUME 494463.921 3761306.618 729.08
LOCATION L0000850 VOLUME 494455.997 3761309.935 729.15
LOCATION L0000851 VOLUME 494448.073 3761313.252 729.06
LOCATION L0000852 VOLUME 494440.150 3761316.569 728.85
LOCATION L0000853 VOLUME 494432.226 3761319.886 728.64
LOCATION L0000854 VOLUME 494424.302 3761323.203 728.46
LOCATION L0000855 VOLUME 494417.326 3761327.736 728.20
LOCATION L0000856 VOLUME 494412.172 3761334.608 728.06
LOCATION L0000857 VOLUME 494407.018 3761341.480 728.12
LOCATION L0000858 VOLUME 494401.864 3761348.352 727.99
LOCATION L0000859 VOLUME 494396.710 3761355.224 727.94
LOCATION L0000860 VOLUME 494391.556 3761362.096 727.88
LOCATION L0000861 VOLUME 494389.374 3761370.294 728.11
LOCATION L0000862 VOLUME 494387.703 3761378.720 728.18
LOCATION L0000863 VOLUME 494386.033 3761387.146 728.18
LOCATION L0000864 VOLUME 494384.363 3761395.572 728.19
LOCATION L0000865 VOLUME 494382.693 3761403.998 728.19
LOCATION L0000866 VOLUME 494381.023 3761412.424 728.18
LOCATION L0000867 VOLUME 494379.353 3761420.850 728.16
LOCATION L0000868 VOLUME 494377.683 3761429.276 728.16
LOCATION L0000869 VOLUME 494376.013 3761437.703 728.16
LOCATION L0000870 VOLUME 494374.343 3761446.129 728.15
LOCATION L0000871 VOLUME 494372.673 3761454.555 728.14
LOCATION L0000872 VOLUME 494371.003 3761462.981 728.13

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   LOCATION L0000873     VOLUME   494369.333 3761471.407 728.06
   LOCATION L0000874     VOLUME   494368.146 3761479.535 727.94
   LOCATION L0000875     VOLUME   494376.427 3761481.819 728.12
   LOCATION L0000876     VOLUME   494384.708 3761484.103 728.29
   LOCATION L0000877     VOLUME   494392.988 3761486.388 728.48
** End of LINE VOLUME Source ID = SLINE9
   LOCATION STCK1        POINT      494430.262  3761581.993      729.200
** DESCRSRC Loading
   LOCATION STCK2        POINT      494430.262  3761581.993      729.200
** DESCRSRC Breathing
** Source Parameters **
   SRCPARAM VOL1              1.0     1.000     3.023     0.465
   SRCPARAM VOL2              1.0     0.000     3.023     0.000
** LINE VOLUME Source ID = SLINE1
   SRCPARAM L0000001       0.00625      3.40      4.00      3.16
   SRCPARAM L0000002       0.00625      3.40      4.00      3.16
   SRCPARAM L0000003       0.00625      3.40      4.00      3.16
   SRCPARAM L0000004       0.00625      3.40      4.00      3.16
   SRCPARAM L0000005       0.00625      3.40      4.00      3.16
   SRCPARAM L0000006       0.00625      3.40      4.00      3.16
   SRCPARAM L0000007       0.00625      3.40      4.00      3.16
   SRCPARAM L0000008       0.00625      3.40      4.00      3.16
   SRCPARAM L0000009       0.00625      3.40      4.00      3.16
   SRCPARAM L0000010       0.00625      3.40      4.00      3.16
   SRCPARAM L0000011       0.00625      3.40      4.00      3.16
   SRCPARAM L0000012       0.00625      3.40      4.00      3.16
   SRCPARAM L0000013       0.00625      3.40      4.00      3.16
   SRCPARAM L0000014       0.00625      3.40      4.00      3.16
   SRCPARAM L0000015       0.00625      3.40      4.00      3.16
   SRCPARAM L0000016       0.00625      3.40      4.00      3.16
   SRCPARAM L0000017       0.00625      3.40      4.00      3.16
   SRCPARAM L0000018       0.00625      3.40      4.00      3.16
   SRCPARAM L0000019       0.00625      3.40      4.00      3.16
   SRCPARAM L0000020       0.00625      3.40      4.00      3.16
   SRCPARAM L0000021       0.00625      3.40      4.00      3.16
   SRCPARAM L0000022       0.00625      3.40      4.00      3.16
   SRCPARAM L0000023       0.00625      3.40      4.00      3.16
   SRCPARAM L0000024       0.00625      3.40      4.00      3.16
   SRCPARAM L0000025       0.00625      3.40      4.00      3.16
   SRCPARAM L0000026       0.00625      3.40      4.00      3.16
   SRCPARAM L0000027       0.00625      3.40      4.00      3.16
   SRCPARAM L0000028       0.00625      3.40      4.00      3.16
   SRCPARAM L0000029       0.00625      3.40      4.00      3.16
   SRCPARAM L0000030       0.00625      3.40      4.00      3.16
   SRCPARAM L0000031       0.00625      3.40      4.00      3.16
   SRCPARAM L0000032       0.00625      3.40      4.00      3.16
   SRCPARAM L0000033       0.00625      3.40      4.00      3.16
   SRCPARAM L0000034       0.00625      3.40      4.00      3.16
   SRCPARAM L0000035       0.00625      3.40      4.00      3.16
   SRCPARAM L0000036       0.00625      3.40      4.00      3.16
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   SRCPARAM L0000037       0.00625      3.40      4.00      3.16
   SRCPARAM L0000038       0.00625      3.40      4.00      3.16
   SRCPARAM L0000039       0.00625      3.40      4.00      3.16
   SRCPARAM L0000040       0.00625      3.40      4.00      3.16
   SRCPARAM L0000041       0.00625      3.40      4.00      3.16
   SRCPARAM L0000042       0.00625      3.40      4.00      3.16
   SRCPARAM L0000043       0.00625      3.40      4.00      3.16
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   SRCPARAM L0000045       0.00625      3.40      4.00      3.16
   SRCPARAM L0000046       0.00625      3.40      4.00      3.16
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   SRCPARAM L0000049       0.00625      3.40      4.00      3.16
   SRCPARAM L0000050       0.00625      3.40      4.00      3.16
   SRCPARAM L0000051       0.00625      3.40      4.00      3.16
   SRCPARAM L0000052       0.00625      3.40      4.00      3.16
   SRCPARAM L0000053       0.00625      3.40      4.00      3.16
   SRCPARAM L0000054       0.00625      3.40      4.00      3.16
   SRCPARAM L0000055       0.00625      3.40      4.00      3.16
   SRCPARAM L0000056       0.00625      3.40      4.00      3.16
   SRCPARAM L0000057       0.00625      3.40      4.00      3.16
   SRCPARAM L0000058       0.00625      3.40      4.00      3.16
   SRCPARAM L0000059       0.00625      3.40      4.00      3.16
   SRCPARAM L0000060       0.00625      3.40      4.00      3.16
   SRCPARAM L0000061       0.00625      3.40      4.00      3.16
   SRCPARAM L0000062       0.00625      3.40      4.00      3.16
   SRCPARAM L0000063       0.00625      3.40      4.00      3.16
   SRCPARAM L0000064       0.00625      3.40      4.00      3.16
   SRCPARAM L0000065       0.00625      3.40      4.00      3.16
   SRCPARAM L0000066       0.00625      3.40      4.00      3.16
   SRCPARAM L0000067       0.00625      3.40      4.00      3.16
   SRCPARAM L0000068       0.00625      3.40      4.00      3.16
   SRCPARAM L0000069       0.00625      3.40      4.00      3.16
   SRCPARAM L0000070       0.00625      3.40      4.00      3.16
   SRCPARAM L0000071       0.00625      3.40      4.00      3.16
   SRCPARAM L0000072       0.00625      3.40      4.00      3.16
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** LINE VOLUME Source ID = SLINE2
   SRCPARAM L0000073     0.0048913043      3.40      4.00      3.16
   SRCPARAM L0000074     0.0048913043      3.40      4.00      3.16
   SRCPARAM L0000075     0.0048913043      3.40      4.00      3.16
   SRCPARAM L0000076     0.0048913043      3.40      4.00      3.16
   SRCPARAM L0000077     0.0048913043      3.40      4.00      3.16
   SRCPARAM L0000078     0.0048913043      3.40      4.00      3.16
   SRCPARAM L0000079     0.0048913043      3.40      4.00      3.16
   SRCPARAM L0000080     0.0048913043      3.40      4.00      3.16
   SRCPARAM L0000081     0.0048913043      3.40      4.00      3.16
   SRCPARAM L0000082     0.0048913043      3.40      4.00      3.16
   SRCPARAM L0000083     0.0048913043      3.40      4.00      3.16
   SRCPARAM L0000084     0.0048913043      3.40      4.00      3.16
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SRCPARAM L0000085     0.0048913043      3.40      4.00      3.16
SRCPARAM L0000086     0.0048913043      3.40      4.00      3.16
SRCPARAM L0000087     0.0048913043      3.40      4.00      3.16
SRCPARAM L0000088     0.0048913043      3.40      4.00      3.16
SRCPARAM L0000089     0.0048913043      3.40      4.00      3.16
SRCPARAM L0000090     0.0048913043      3.40      4.00      3.16
SRCPARAM L0000091     0.0048913043      3.40      4.00      3.16
SRCPARAM L0000092     0.0048913043      3.40      4.00      3.16
SRCPARAM L0000093     0.0048913043      3.40      4.00      3.16
SRCPARAM L0000094     0.0048913043      3.40      4.00      3.16
SRCPARAM L0000095     0.0048913043      3.40      4.00      3.16
SRCPARAM L0000096     0.0048913043      3.40      4.00      3.16
SRCPARAM L0000097     0.0048913043      3.40      4.00      3.16
SRCPARAM L0000098     0.0048913043      3.40      4.00      3.16
SRCPARAM L0000099     0.0048913043      3.40      4.00      3.16
SRCPARAM L0000100     0.0048913043      3.40      4.00      3.16
SRCPARAM L0000101     0.0048913043      3.40      4.00      3.16
SRCPARAM L0000102     0.0048913043      3.40      4.00      3.16
SRCPARAM L0000103     0.0048913043      3.40      4.00      3.16
SRCPARAM L0000104     0.0048913043      3.40      4.00      3.16
SRCPARAM L0000105     0.0048913043      3.40      4.00      3.16
SRCPARAM L0000106     0.0048913043      3.40      4.00      3.16
SRCPARAM L0000107     0.0048913043      3.40      4.00      3.16
SRCPARAM L0000108     0.0048913043      3.40      4.00      3.16
SRCPARAM L0000109     0.0048913043      3.40      4.00      3.16
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SRCPARAM L0000112     0.0048913043      3.40      4.00      3.16
SRCPARAM L0000113     0.0048913043      3.40      4.00      3.16
SRCPARAM L0000114     0.0048913043      3.40      4.00      3.16
SRCPARAM L0000115     0.0048913043      3.40      4.00      3.16
SRCPARAM L0000116     0.0048913043      3.40      4.00      3.16
SRCPARAM L0000117     0.0048913043      3.40      4.00      3.16
SRCPARAM L0000118     0.0048913043      3.40      4.00      3.16
SRCPARAM L0000119     0.0048913043      3.40      4.00      3.16
SRCPARAM L0000120     0.0048913043      3.40      4.00      3.16
SRCPARAM L0000121     0.0048913043      3.40      4.00      3.16
SRCPARAM L0000122     0.0048913043      3.40      4.00      3.16
SRCPARAM L0000123     0.0048913043      3.40      4.00      3.16
SRCPARAM L0000124     0.0048913043      3.40      4.00      3.16
SRCPARAM L0000125     0.0048913043      3.40      4.00      3.16
SRCPARAM L0000126     0.0048913043      3.40      4.00      3.16
SRCPARAM L0000127     0.0048913043      3.40      4.00      3.16
SRCPARAM L0000128     0.0048913043      3.40      4.00      3.16
SRCPARAM L0000129     0.0048913043      3.40      4.00      3.16
SRCPARAM L0000130     0.0048913043      3.40      4.00      3.16
SRCPARAM L0000131     0.0048913043      3.40      4.00      3.16
SRCPARAM L0000132     0.0048913043      3.40      4.00      3.16
SRCPARAM L0000133     0.0048913043      3.40      4.00      3.16
SRCPARAM L0000134     0.0048913043      3.40      4.00      3.16
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   SRCPARAM L0000135     0.0048913043      3.40      4.00      3.16
   SRCPARAM L0000136     0.0048913043      3.40      4.00      3.16
   SRCPARAM L0000137     0.0048913043      3.40      4.00      3.16
   SRCPARAM L0000138     0.0048913043      3.40      4.00      3.16
   SRCPARAM L0000139     0.0048913043      3.40      4.00      3.16
   SRCPARAM L0000140     0.0048913043      3.40      4.00      3.16
   SRCPARAM L0000141     0.0048913043      3.40      4.00      3.16
   SRCPARAM L0000142     0.0048913043      3.40      4.00      3.16
   SRCPARAM L0000143     0.0048913043      3.40      4.00      3.16
   SRCPARAM L0000144     0.0048913043      3.40      4.00      3.16
   SRCPARAM L0000145     0.0048913043      3.40      4.00      3.16
   SRCPARAM L0000146     0.0048913043      3.40      4.00      3.16
   SRCPARAM L0000147     0.0048913043      3.40      4.00      3.16
   SRCPARAM L0000148     0.0048913043      3.40      4.00      3.16
   SRCPARAM L0000149     0.0048913043      3.40      4.00      3.16
   SRCPARAM L0000150     0.0048913043      3.40      4.00      3.16
   SRCPARAM L0000151     0.0048913043      3.40      4.00      3.16
   SRCPARAM L0000152     0.0048913043      3.40      4.00      3.16
   SRCPARAM L0000153     0.0048913043      3.40      4.00      3.16
   SRCPARAM L0000154     0.0048913043      3.40      4.00      3.16
   SRCPARAM L0000155     0.0048913043      3.40      4.00      3.16
   SRCPARAM L0000156     0.0048913043      3.40      4.00      3.16
   SRCPARAM L0000157     0.0048913043      3.40      4.00      3.16
   SRCPARAM L0000158     0.0048913043      3.40      4.00      3.16
   SRCPARAM L0000159     0.0048913043      3.40      4.00      3.16
   SRCPARAM L0000160     0.0048913043      3.40      4.00      3.16
   SRCPARAM L0000161     0.0048913043      3.40      4.00      3.16
   SRCPARAM L0000162     0.0048913043      3.40      4.00      3.16
   SRCPARAM L0000163     0.0048913043      3.40      4.00      3.16
   SRCPARAM L0000164     0.0048913043      3.40      4.00      3.16
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** LINE VOLUME Source ID = SLINE4
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   SRCPARAM L0000166     0.0004504505      3.40      4.00      3.16
   SRCPARAM L0000167     0.0004504505      3.40      4.00      3.16
   SRCPARAM L0000168     0.0004504505      3.40      4.00      3.16
   SRCPARAM L0000169     0.0004504505      3.40      4.00      3.16
   SRCPARAM L0000170     0.0004504505      3.40      4.00      3.16
   SRCPARAM L0000171     0.0004504505      3.40      4.00      3.16
   SRCPARAM L0000172     0.0004504505      3.40      4.00      3.16
   SRCPARAM L0000173     0.0004504505      3.40      4.00      3.16
   SRCPARAM L0000174     0.0004504505      3.40      4.00      3.16
   SRCPARAM L0000175     0.0004504505      3.40      4.00      3.16
   SRCPARAM L0000176     0.0004504505      3.40      4.00      3.16
   SRCPARAM L0000177     0.0004504505      3.40      4.00      3.16
   SRCPARAM L0000178     0.0004504505      3.40      4.00      3.16
   SRCPARAM L0000179     0.0004504505      3.40      4.00      3.16
   SRCPARAM L0000180     0.0004504505      3.40      4.00      3.16
   SRCPARAM L0000181     0.0004504505      3.40      4.00      3.16
   SRCPARAM L0000182     0.0004504505      3.40      4.00      3.16
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SRCPARAM L0000183     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000184     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000185     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000186     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000187     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000188     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000189     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000190     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000191     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000192     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000193     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000194     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000195     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000196     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000197     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000198     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000199     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000200     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000201     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000202     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000203     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000204     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000205     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000206     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000207     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000208     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000209     0.0004504505      3.40      4.00      3.16
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SRCPARAM L0000211     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000212     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000213     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000214     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000215     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000216     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000217     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000218     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000219     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000220     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000221     0.0004504505      3.40      4.00      3.16
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SRCPARAM L0000224     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000225     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000226     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000227     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000228     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000229     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000230     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000231     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000232     0.0004504505      3.40      4.00      3.16
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   SRCPARAM L0000236     0.0004504505      3.40      4.00      3.16
   SRCPARAM L0000237     0.0004504505      3.40      4.00      3.16
   SRCPARAM L0000238     0.0004504505      3.40      4.00      3.16
   SRCPARAM L0000239     0.0004504505      3.40      4.00      3.16
   SRCPARAM L0000240     0.0004504505      3.40      4.00      3.16
   SRCPARAM L0000241     0.0004504505      3.40      4.00      3.16
   SRCPARAM L0000242     0.0004504505      3.40      4.00      3.16
   SRCPARAM L0000243     0.0004504505      3.40      4.00      3.16
   SRCPARAM L0000244     0.0004504505      3.40      4.00      3.16
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   SRCPARAM L0000246     0.0004504505      3.40      4.00      3.16
   SRCPARAM L0000247     0.0004504505      3.40      4.00      3.16
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   SRCPARAM L0000254     0.0004504505      3.40      4.00      3.16
   SRCPARAM L0000255     0.0004504505      3.40      4.00      3.16
   SRCPARAM L0000256     0.0004504505      3.40      4.00      3.16
   SRCPARAM L0000257     0.0004504505      3.40      4.00      3.16
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   SRCPARAM L0000268     0.0004504505      3.40      4.00      3.16
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   SRCPARAM L0000270     0.0004504505      3.40      4.00      3.16
   SRCPARAM L0000271     0.0004504505      3.40      4.00      3.16
   SRCPARAM L0000272     0.0004504505      3.40      4.00      3.16
   SRCPARAM L0000273     0.0004504505      3.40      4.00      3.16
   SRCPARAM L0000274     0.0004504505      3.40      4.00      3.16
   SRCPARAM L0000275     0.0004504505      3.40      4.00      3.16
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** LINE VOLUME Source ID = SLINE5
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   SRCPARAM L0000277     0.0003401361      3.40      4.00      3.16
   SRCPARAM L0000278     0.0003401361      3.40      4.00      3.16
   SRCPARAM L0000279     0.0003401361      3.40      4.00      3.16
   SRCPARAM L0000280     0.0003401361      3.40      4.00      3.16
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SRCPARAM L0000288     0.0003401361      3.40      4.00      3.16
SRCPARAM L0000289     0.0003401361      3.40      4.00      3.16
SRCPARAM L0000290     0.0003401361      3.40      4.00      3.16
SRCPARAM L0000291     0.0003401361      3.40      4.00      3.16
SRCPARAM L0000292     0.0003401361      3.40      4.00      3.16
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SRCPARAM L0000299     0.0003401361      3.40      4.00      3.16
SRCPARAM L0000300     0.0003401361      3.40      4.00      3.16
SRCPARAM L0000301     0.0003401361      3.40      4.00      3.16
SRCPARAM L0000302     0.0003401361      3.40      4.00      3.16
SRCPARAM L0000303     0.0003401361      3.40      4.00      3.16
SRCPARAM L0000304     0.0003401361      3.40      4.00      3.16
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SRCPARAM L0000321     0.0003401361      3.40      4.00      3.16
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SRCPARAM L0000353     0.0003401361      3.40      4.00      3.16
SRCPARAM L0000354     0.0003401361      3.40      4.00      3.16
SRCPARAM L0000355     0.0003401361      3.40      4.00      3.16
SRCPARAM L0000356     0.0003401361      3.40      4.00      3.16
SRCPARAM L0000357     0.0003401361      3.40      4.00      3.16
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SRCPARAM L0000366     0.0003401361      3.40      4.00      3.16
SRCPARAM L0000367     0.0003401361      3.40      4.00      3.16
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SRCPARAM L0000373     0.0003401361      3.40      4.00      3.16
SRCPARAM L0000374     0.0003401361      3.40      4.00      3.16
SRCPARAM L0000375     0.0003401361      3.40      4.00      3.16
SRCPARAM L0000376     0.0003401361      3.40      4.00      3.16
SRCPARAM L0000377     0.0003401361      3.40      4.00      3.16
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   SRCPARAM L0000387     0.0003401361      3.40      4.00      3.16
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   SRCPARAM L0000402     0.0003401361      3.40      4.00      3.16
   SRCPARAM L0000403     0.0003401361      3.40      4.00      3.16
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   SRCPARAM L0000419     0.0003401361      3.40      4.00      3.16
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   SRCPARAM L0000421     0.0003401361      3.40      4.00      3.16
   SRCPARAM L0000422     0.0003401361      3.40      4.00      3.16
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** LINE VOLUME Source ID = SLINE6
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   SRCPARAM L0000425     0.0004504505      3.40      4.00      3.16
   SRCPARAM L0000426     0.0004504505      3.40      4.00      3.16
   SRCPARAM L0000427     0.0004504505      3.40      4.00      3.16
   SRCPARAM L0000428     0.0004504505      3.40      4.00      3.16
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SRCPARAM L0000429     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000430     0.0004504505      3.40      4.00      3.16
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SRCPARAM L0000432     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000433     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000434     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000435     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000436     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000437     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000438     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000439     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000440     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000441     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000442     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000443     0.0004504505      3.40      4.00      3.16
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SRCPARAM L0000445     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000446     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000447     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000448     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000449     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000450     0.0004504505      3.40      4.00      3.16
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SRCPARAM L0000452     0.0004504505      3.40      4.00      3.16
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SRCPARAM L0000455     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000456     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000457     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000458     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000459     0.0004504505      3.40      4.00      3.16
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SRCPARAM L0000461     0.0004504505      3.40      4.00      3.16
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SRCPARAM L0000464     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000465     0.0004504505      3.40      4.00      3.16
SRCPARAM L0000466     0.0004504505      3.40      4.00      3.16
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SRCPARAM L0000472     0.0004504505      3.40      4.00      3.16
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** LINE VOLUME Source ID = SLINE7
   SRCPARAM L0000534     0.0003401361      3.40      4.00      3.16
   SRCPARAM L0000535     0.0003401361      3.40      4.00      3.16
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   SRCPARAM L0000541     0.0003401361      3.40      4.00      3.16
   SRCPARAM L0000542     0.0003401361      3.40      4.00      3.16
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SRCPARAM L0000649     0.0003401361      3.40      4.00      3.16
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SRCPARAM L0000651     0.0003401361      3.40      4.00      3.16
SRCPARAM L0000652     0.0003401361      3.40      4.00      3.16
SRCPARAM L0000653     0.0003401361      3.40      4.00      3.16
SRCPARAM L0000654     0.0003401361      3.40      4.00      3.16
SRCPARAM L0000655     0.0003401361      3.40      4.00      3.16
SRCPARAM L0000656     0.0003401361      3.40      4.00      3.16
SRCPARAM L0000657     0.0003401361      3.40      4.00      3.16
SRCPARAM L0000658     0.0003401361      3.40      4.00      3.16
SRCPARAM L0000659     0.0003401361      3.40      4.00      3.16
SRCPARAM L0000660     0.0003401361      3.40      4.00      3.16
SRCPARAM L0000661     0.0003401361      3.40      4.00      3.16
SRCPARAM L0000662     0.0003401361      3.40      4.00      3.16
SRCPARAM L0000663     0.0003401361      3.40      4.00      3.16
SRCPARAM L0000664     0.0003401361      3.40      4.00      3.16
SRCPARAM L0000665     0.0003401361      3.40      4.00      3.16
SRCPARAM L0000666     0.0003401361      3.40      4.00      3.16
SRCPARAM L0000667     0.0003401361      3.40      4.00      3.16
SRCPARAM L0000668     0.0003401361      3.40      4.00      3.16
SRCPARAM L0000669     0.0003401361      3.40      4.00      3.16
SRCPARAM L0000670     0.0003401361      3.40      4.00      3.16
SRCPARAM L0000671     0.0003401361      3.40      4.00      3.16
SRCPARAM L0000672     0.0003401361      3.40      4.00      3.16
SRCPARAM L0000673     0.0003401361      3.40      4.00      3.16
SRCPARAM L0000674     0.0003401361      3.40      4.00      3.16
SRCPARAM L0000675     0.0003401361      3.40      4.00      3.16
SRCPARAM L0000676     0.0003401361      3.40      4.00      3.16
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   SRCPARAM L0000677     0.0003401361      3.40      4.00      3.16
   SRCPARAM L0000678     0.0003401361      3.40      4.00      3.16
   SRCPARAM L0000679     0.0003401361      3.40      4.00      3.16
   SRCPARAM L0000680     0.0003401361      3.40      4.00      3.16
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE8
   SRCPARAM L0000681     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000682     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000683     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000684     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000685     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000686     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000687     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000688     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000689     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000690     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000691     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000692     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000693     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000694     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000695     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000696     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000697     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000698     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000699     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000700     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000701     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000702     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000703     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000704     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000705     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000706     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000707     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000708     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000709     0.0057692308      3.40      4.00      3.16
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   SRCPARAM L0000711     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000712     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000713     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000714     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000715     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000716     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000717     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000718     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000719     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000720     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000721     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000722     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000723     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000724     0.0057692308      3.40      4.00      3.16
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   SRCPARAM L0000725     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000726     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000727     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000728     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000729     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000730     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000731     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000732     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000733     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000734     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000735     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000736     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000737     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000738     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000739     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000740     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000741     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000742     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000743     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000744     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000745     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000746     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000747     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000748     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000749     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000750     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000751     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000752     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000753     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000754     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000755     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000756     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000757     0.0057692308      3.40      4.00      3.16
   SRCPARAM L0000758     0.0057692308      3.40      4.00      3.16
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE9
   SRCPARAM L0000759     0.0037815126      3.40      4.00      3.16
   SRCPARAM L0000760     0.0037815126      3.40      4.00      3.16
   SRCPARAM L0000761     0.0037815126      3.40      4.00      3.16
   SRCPARAM L0000762     0.0037815126      3.40      4.00      3.16
   SRCPARAM L0000763     0.0037815126      3.40      4.00      3.16
   SRCPARAM L0000764     0.0037815126      3.40      4.00      3.16
   SRCPARAM L0000765     0.0037815126      3.40      4.00      3.16
   SRCPARAM L0000766     0.0037815126      3.40      4.00      3.16
   SRCPARAM L0000767     0.0037815126      3.40      4.00      3.16
   SRCPARAM L0000768     0.0037815126      3.40      4.00      3.16
   SRCPARAM L0000769     0.0037815126      3.40      4.00      3.16
   SRCPARAM L0000770     0.0037815126      3.40      4.00      3.16
   SRCPARAM L0000771     0.0037815126      3.40      4.00      3.16
   SRCPARAM L0000772     0.0037815126      3.40      4.00      3.16
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SRCPARAM L0000773     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000774     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000775     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000776     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000777     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000778     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000779     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000780     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000781     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000782     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000783     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000784     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000785     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000786     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000787     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000788     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000789     0.0037815126      3.40      4.00      3.16
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SRCPARAM L0000791     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000792     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000793     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000794     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000795     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000796     0.0037815126      3.40      4.00      3.16
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SRCPARAM L0000798     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000799     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000800     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000801     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000802     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000803     0.0037815126      3.40      4.00      3.16
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SRCPARAM L0000805     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000806     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000807     0.0037815126      3.40      4.00      3.16
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SRCPARAM L0000810     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000811     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000812     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000813     0.0037815126      3.40      4.00      3.16
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SRCPARAM L0000815     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000816     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000817     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000818     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000819     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000820     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000821     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000822     0.0037815126      3.40      4.00      3.16
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SRCPARAM L0000823     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000824     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000825     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000826     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000827     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000828     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000829     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000830     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000831     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000832     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000833     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000834     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000835     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000836     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000837     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000838     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000839     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000840     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000841     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000842     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000843     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000844     0.0037815126      3.40      4.00      3.16
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SRCPARAM L0000849     0.0037815126      3.40      4.00      3.16
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SRCPARAM L0000857     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000858     0.0037815126      3.40      4.00      3.16
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SRCPARAM L0000862     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000863     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000864     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000865     0.0037815126      3.40      4.00      3.16
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SRCPARAM L0000867     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000868     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000869     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000870     0.0037815126      3.40      4.00      3.16
SRCPARAM L0000871     0.0037815126      3.40      4.00      3.16
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   SRCPARAM L0000875     0.0037815126      3.40      4.00      3.16
   SRCPARAM L0000876     0.0037815126      3.40      4.00      3.16
   SRCPARAM L0000877     0.0037815126      3.40      4.00      3.16
** ------------------------------------------------------------------
   SRCPARAM STCK1               1.0     3.660   291.000     0.001      0.05
   SRCPARAM STCK2               1.0     3.660   289.000     0.001      0.05

** Building Downwash **
   BUILDHGT STCK1           10.67    10.67    10.67    10.67    10.67     0.00
   BUILDHGT STCK1            0.00     0.00     0.00     0.00     0.00     0.00
   BUILDHGT STCK1            0.00     0.00     0.00    10.67     0.00     0.00
   BUILDHGT STCK1            0.00    10.67    10.67    10.67    10.67     0.00
   BUILDHGT STCK1            0.00     0.00     0.00     0.00     0.00     0.00
   BUILDHGT STCK1            0.00     0.00     0.00    10.67    10.67    10.67

   BUILDHGT STCK2           10.67    10.67    10.67    10.67    10.67     0.00
   BUILDHGT STCK2            0.00     0.00     0.00     0.00     0.00     0.00
   BUILDHGT STCK2            0.00     0.00     0.00    10.67     0.00     0.00
   BUILDHGT STCK2            0.00    10.67    10.67    10.67    10.67     0.00
   BUILDHGT STCK2            0.00     0.00     0.00     0.00     0.00     0.00
   BUILDHGT STCK2            0.00     0.00     0.00    10.67    10.67    10.67

   BUILDWID STCK1           43.39    42.79    40.89    37.74    33.45     0.00
   BUILDWID STCK1            0.00     0.00     0.00     0.00     0.00     0.00
   BUILDWID STCK1            0.00     0.00     0.00    41.28     0.00     0.00
   BUILDWID STCK1            0.00    42.79    40.89    37.74    33.45     0.00
   BUILDWID STCK1            0.00     0.00     0.00     0.00     0.00     0.00
   BUILDWID STCK1            0.00     0.00     0.00    41.28    40.67    42.68

   BUILDWID STCK2           43.39    42.79    40.89    37.74    33.45     0.00
   BUILDWID STCK2            0.00     0.00     0.00     0.00     0.00     0.00
   BUILDWID STCK2            0.00     0.00     0.00    41.28     0.00     0.00
   BUILDWID STCK2            0.00    42.79    40.89    37.74    33.45     0.00
   BUILDWID STCK2            0.00     0.00     0.00     0.00     0.00     0.00
   BUILDWID STCK2            0.00     0.00     0.00    41.28    40.67    42.68

   BUILDLEN STCK1           27.54    32.44    36.35    39.16    40.93     0.00
   BUILDLEN STCK1            0.00     0.00     0.00     0.00     0.00     0.00
   BUILDLEN STCK1            0.00     0.00     0.00    21.97     0.00     0.00
   BUILDLEN STCK1            0.00    32.44    36.35    39.16    40.93     0.00
   BUILDLEN STCK1            0.00     0.00     0.00     0.00     0.00     0.00
   BUILDLEN STCK1            0.00     0.00     0.00    21.97    17.51    21.81

   BUILDLEN STCK2           27.54    32.44    36.35    39.16    40.93     0.00
   BUILDLEN STCK2            0.00     0.00     0.00     0.00     0.00     0.00
   BUILDLEN STCK2            0.00     0.00     0.00    21.97     0.00     0.00
   BUILDLEN STCK2            0.00    32.44    36.35    39.16    40.93     0.00
   BUILDLEN STCK2            0.00     0.00     0.00     0.00     0.00     0.00
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BUILDLEN STCK2            0.00     0.00     0.00    21.97    17.51    21.81

XBADJ    STCK1          -50.67   -53.24   -54.19   -53.49   -51.32     0.00
XBADJ    STCK1            0.00     0.00     0.00     0.00     0.00     0.00
XBADJ    STCK1            0.00     0.00     0.00    19.91     0.00     0.00
XBADJ    STCK1            0.00    20.79    17.83    14.33    10.39     0.00
XBADJ    STCK1            0.00     0.00     0.00     0.00     0.00     0.00
XBADJ    STCK1            0.00     0.00     0.00   -41.88   -43.14   -46.56

XBADJ    STCK2          -50.67   -53.24   -54.19   -53.49   -51.32     0.00
XBADJ    STCK2            0.00     0.00     0.00     0.00     0.00     0.00
XBADJ    STCK2            0.00     0.00     0.00    19.91     0.00     0.00
XBADJ    STCK2            0.00    20.79    17.83    14.33    10.39     0.00
XBADJ    STCK2            0.00     0.00     0.00     0.00     0.00     0.00
XBADJ    STCK2            0.00     0.00     0.00   -41.88   -43.14   -46.56

YBADJ    STCK1            4.23    -2.45    -9.06   -15.39   -21.26     0.00
YBADJ    STCK1            0.00     0.00     0.00     0.00     0.00     0.00
YBADJ    STCK1            0.00     0.00     0.00   -22.34     0.00     0.00
YBADJ    STCK1            0.00     2.45     9.06    15.39    21.26     0.00
YBADJ    STCK1            0.00     0.00     0.00     0.00     0.00     0.00
YBADJ    STCK1            0.00     0.00     0.00    22.34    17.02    10.79

YBADJ    STCK2            4.23    -2.45    -9.06   -15.39   -21.26     0.00
YBADJ    STCK2            0.00     0.00     0.00     0.00     0.00     0.00
YBADJ    STCK2            0.00     0.00     0.00   -22.34     0.00     0.00
YBADJ    STCK2            0.00     2.45     9.06    15.39    21.26     0.00
YBADJ    STCK2            0.00     0.00     0.00     0.00     0.00     0.00
YBADJ    STCK2            0.00     0.00     0.00    22.34    17.02    10.79

URBANSRC ALL
SRCGROUP Outbound L0000001 L0000002 L0000003 L0000004 L0000005 L0000006
SRCGROUP Outbound L0000007 L0000008 L0000009 L0000010 L0000011 L0000012
SRCGROUP Outbound L0000013 L0000014 L0000015 L0000016 L0000017 L0000018
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SRCGROUP Outbound L0000031 L0000032 L0000033 L0000034 L0000035 L0000036
SRCGROUP Outbound L0000037 L0000038 L0000039 L0000040 L0000041 L0000042
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SRCGROUP Outbound L0000409 L0000410 L0000411 L0000412 L0000413 L0000414

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   SRCGROUP Inbound  L0000717 L0000718 L0000719 L0000720 L0000721 L0000722
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   SRCGROUP Inbound  L0000819 L0000820 L0000821 L0000822 L0000823 L0000824
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   SRCGROUP Inbound  L0000855 L0000856 L0000857 L0000858 L0000859 L0000860
   SRCGROUP Inbound  L0000861 L0000862 L0000863 L0000864 L0000865 L0000866
   SRCGROUP Inbound  L0000867 L0000868 L0000869 L0000870 L0000871 L0000872
   SRCGROUP Inbound  L0000873 L0000874 L0000875 L0000876 L0000877
   SRCGROUP Refuelin VOL1
   SRCGROUP Loading  STCK1
   SRCGROUP Breathin STCK2
   SRCGROUP Spill    VOL2
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "Sandalwood Construction.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
```

```
   SURFFILE ..\rdld_sfc_pfl\RDLD_V11_trimmed.sfc
   PROFFILE ..\rdld_sfc_pfl\RDLD_V11_trimmed.PFL
   SURFDATA 3102 2018
   UAIRDATA 3190 2018
   SITEDATA 60714003 2018
   PROFBASE 475.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "Sandalwood Construction.AD\01H1GALL.PLT" 31
   PLOTFILE 1 Outbound 1ST "Sandalwood Construction.AD\01H1G001.PLT" 32
   PLOTFILE 1 Inbound 1ST "Sandalwood Construction.AD\01H1G002.PLT" 33
   PLOTFILE 1 Refuelin 1ST "Sandalwood Construction.AD\01H1G003.PLT" 34
   PLOTFILE 1 Loading 1ST "Sandalwood Construction.AD\01H1G004.PLT" 35
   PLOTFILE 1 Breathin 1ST "Sandalwood Construction.AD\01H1G005.PLT" 36
   PLOTFILE 1 Spill 1ST "Sandalwood Construction.AD\01H1G006.PLT" 37
   PLOTFILE PERIOD ALL "Sandalwood Construction.AD\PE00GALL.PLT" 38
   PLOTFILE PERIOD Outbound "Sandalwood Construction.AD\PE00G001.PLT" 39
   PLOTFILE PERIOD Inbound "Sandalwood Construction.AD\PE00G002.PLT" 40
   PLOTFILE PERIOD Refuelin "Sandalwood Construction.AD\PE00G003.PLT" 41
   PLOTFILE PERIOD Loading "Sandalwood Construction.AD\PE00G004.PLT" 42
   PLOTFILE PERIOD Breathin "Sandalwood Construction.AD\PE00G005.PLT" 43
   PLOTFILE PERIOD Spill "Sandalwood Construction.AD\PE00G006.PLT" 44
   SUMMFILE "Sandalwood Construction.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            3 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 SO W320    1111        VPARM: Input Parameter May Be Out-of-Range for Parameter
```

```
   SZINIT
 ME W186    2255       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
 ME W187    2255       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


 ***********************************
 *** SETUP Finishes Successfully ***
 ***********************************

 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                       ***        08:18:30

                                  PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                          ***     MODEL SETUP OPTIONS SUMMARY
 ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - -

 ** Model Options Selected:
      * Model Uses Regulatory DEFAULT Options
      * Model Is Setup For Calculation of Average CONCentration Values.
      * NO GAS DEPOSITION Data Provided.
      * NO PARTICLE DEPOSITION Data Provided.
      * Model Uses NO DRY DEPLETION. DDPLETE  =  F
      * Model Uses NO WET DEPLETION. WETDPLT  =  F
      * Stack-tip Downwash.
      * Model Accounts for ELEVated Terrain Effects.
      * Use Calms Processing Routine.
      * Use Missing Data Processing Routine.
      * No Exponential Decay.
      * Model Uses URBAN Dispersion Algorithm for the SBL for   881 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   2492442.0 ;  Urban Roughness Length =  1.000 m
      * Urban Roughness Length of 1.0 Meter Used.
      * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
      * CCVR_Sub - Meteorological data includes CCVR substitutions
      * TEMP_Sub - Meteorological data includes TEMP substitutions
      * Model Assumes No FLAGPOLE Receptor Heights.
      * The User Specified a Pollutant Type of: VARIOUS

 **Model Calculates  1 Short Term Average(s) of:   1-HR
     and Calculates PERIOD Averages

 **This Run Includes:    881 Source(s);       7 Source Group(s); and    1053
Receptor(s)
```

```
                with:      2 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:    879 VOLUME source(s)
                 and:      0 AREA type source(s)
                 and:      0 LINE source(s)
                 and:      0 RLINE/RLINEXT source(s)
                 and:      0 OPENPIT source(s)
                 and:      0 BUOYANT LINE source(s) with a total of     0 line(s)
                 and:      0 SWPOINT source(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  22112

 **Output Options Selected:
          Model Outputs Tables of PERIOD Averages by Receptor
          Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE
Keyword)
          Model Outputs External File(s) of High Values for Plotting (PLOTFILE
Keyword)
          Model Outputs Separate Summary File of High Ranked Values (SUMMFILE
Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                 m for Missing Hours
                                                                 b for Both Calm and
Missing Hours

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   475.00 ;  Decay
Coef. =    0.000     ;  Rot. Angle =     0.0
                  Emission Units = GRAMS/SEC                                    ;
Emission Rate Unit Factor =   0.10000E+07
                  Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      5.5 MB of RAM.

 **Input Runstream File:          aermod.inp

 **Output Print File:             aermod.out


 **Detailed Error/Message File:   Sandalwood Construction.err

 **File for Summary of Results:   Sandalwood Construction.sum

↟ *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BLDG EXISTS	URBAN SOURCE	CAP/ HOR VARY BY	EMIS RATE SCALAR
STCK1	0	0.10000E+01	494430.3	3761582.0	729.2	3.66	291.00	0.00	0.05	YES	YES	NO	
STCK2	0	0.10000E+01	494430.3	3761582.0	729.2	3.66	289.00	0.00	0.05	YES	YES	NO	

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY	AIRCRAFT
VOL1	0	0.10000E+01	494399.6	3761573.6	728.6	1.00	3.02	0.47	YES		NO
VOL2	0	0.10000E+01	494399.6	3761573.6	728.6	0.00	3.02	0.00	YES		NO
L0000001	0	0.62500E-02	494396.0	3761483.2	728.5	3.40	4.00	3.16	YES		NO
L0000002	0	0.62500E-02	494387.4	3761482.4	728.3	3.40	4.00	3.16	YES		NO
L0000003	0	0.62500E-02	494378.8	3761481.6	728.2	3.40	4.00				

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3.16     YES                    NO
 L0000004         0   0.62500E-02  494370.3 3761480.8   728.0     3.40     4.00
3.16     YES                    NO
 L0000005         0   0.62500E-02  494367.5 3761475.6   727.9     3.40     4.00
3.16     YES                    NO
 L0000006         0   0.62500E-02  494368.8 3761467.1   728.1     3.40     4.00
3.16     YES                    NO
 L0000007         0   0.62500E-02  494370.1 3761458.6   728.1     3.40     4.00
3.16     YES                    NO
 L0000008         0   0.62500E-02  494371.4 3761450.1   728.1     3.40     4.00
3.16     YES                    NO
 L0000009         0   0.62500E-02  494372.7 3761441.6   728.1     3.40     4.00
3.16     YES                    NO
 L0000010         0   0.62500E-02  494374.1 3761433.1   728.1     3.40     4.00
3.16     YES                    NO
 L0000011         0   0.62500E-02  494375.4 3761424.6   728.1     3.40     4.00
3.16     YES                    NO
 L0000012         0   0.62500E-02  494376.7 3761416.1   728.1     3.40     4.00
3.16     YES                    NO
 L0000013         0   0.62500E-02  494378.0 3761407.7   728.1     3.40     4.00
3.16     YES                    NO
 L0000014         0   0.62500E-02  494379.3 3761399.2   728.1     3.40     4.00
3.16     YES                    NO
 L0000015         0   0.62500E-02  494380.7 3761390.7   728.1     3.40     4.00
3.16     YES                    NO
 L0000016         0   0.62500E-02  494383.2 3761382.6   728.1     3.40     4.00
3.16     YES                    NO
 L0000017         0   0.62500E-02  494387.0 3761374.9   728.1     3.40     4.00
3.16     YES                    NO
 L0000018         0   0.62500E-02  494390.8 3761367.2   728.0     3.40     4.00
3.16     YES                    NO
 L0000019         0   0.62500E-02  494394.7 3761359.5   728.0     3.40     4.00
3.16     YES                    NO
 L0000020         0   0.62500E-02  494398.5 3761351.8   727.9     3.40     4.00
3.16     YES                    NO
 L0000021         0   0.62500E-02  494402.4 3761344.2   727.9     3.40     4.00
3.16     YES                    NO
 L0000022         0   0.62500E-02  494408.3 3761337.9   728.0     3.40     4.00
3.16     YES                    NO
 L0000023         0   0.62500E-02  494414.1 3761331.6   728.1     3.40     4.00
3.16     YES                    NO
 L0000024         0   0.62500E-02  494420.0 3761325.3   728.4     3.40     4.00
3.16     YES                    NO
 L0000025         0   0.62500E-02  494425.8 3761319.0   728.4     3.40     4.00
3.16     YES                    NO
 L0000026         0   0.62500E-02  494432.1 3761313.4   728.5     3.40     4.00
3.16     YES                    NO
 L0000027         0   0.62500E-02  494440.4 3761311.1   728.8     3.40     4.00
3.16     YES                    NO
 L0000028         0   0.62500E-02  494448.6 3761308.7   729.0     3.40     4.00
```

3.16   YES   NO
 L0000029   0   0.62500E-02 494456.9 3761306.4   729.0   3.40   4.00
3.16   YES   NO
 L0000030   0   0.62500E-02 494465.1 3761304.0   728.9   3.40   4.00
3.16   YES   NO
 L0000031   0   0.62500E-02 494473.5 3761304.7   729.0   3.40   4.00
3.16   YES   NO
 L0000032   0   0.62500E-02 494481.9 3761306.4   729.3   3.40   4.00
3.16   YES   NO
 L0000033   0   0.62500E-02 494490.3 3761308.1   729.5   3.40   4.00
3.16   YES   NO
 L0000034   0   0.62500E-02 494498.7 3761309.9   729.8   3.40   4.00
3.16   YES   NO
 L0000035   0   0.62500E-02 494507.2 3761311.6   730.0   3.40   4.00
3.16   YES   NO
 L0000036   0   0.62500E-02 494515.6 3761313.4   730.2   3.40   4.00
3.16   YES   NO
 L0000037   0   0.62500E-02 494524.0 3761315.1   730.3   3.40   4.00
3.16   YES   NO
 L0000038   0   0.62500E-02 494531.3 3761313.0   730.5   3.40   4.00
3.16   YES   NO

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                  *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
 -
- -

 L0000039   0   0.62500E-02 494537.6 3761307.1   730.5   3.40   4.00
3.16   YES   NO
 L0000040   0   0.62500E-02 494543.9 3761301.3   730.3   3.40   4.00
3.16   YES   NO
 L0000041   0   0.62500E-02 494550.2 3761295.4   730.2   3.40   4.00
3.16   YES   NO
 L0000042   0   0.62500E-02 494556.5 3761289.6   729.9   3.40   4.00
3.16   YES   NO
 L0000043   0   0.62500E-02 494562.8 3761283.8   729.7   3.40   4.00

```
3.16     YES                    NO
 L0000044         0   0.62500E-02  494569.1 3761277.9   729.2     3.40     4.00
3.16     YES                    NO
 L0000045         0   0.62500E-02  494575.4 3761272.1   728.2     3.40     4.00
3.16     YES                    NO
 L0000046         0   0.62500E-02  494581.7 3761266.2   727.4     3.40     4.00
3.16     YES                    NO
 L0000047         0   0.62500E-02  494588.0 3761260.4   727.0     3.40     4.00
3.16     YES                    NO
 L0000048         0   0.62500E-02  494594.3 3761254.6   726.8     3.40     4.00
3.16     YES                    NO
 L0000049         0   0.62500E-02  494600.6 3761248.7   726.8     3.40     4.00
3.16     YES                    NO
 L0000050         0   0.62500E-02  494606.9 3761242.9   725.8     3.40     4.00
3.16     YES                    NO
 L0000051         0   0.62500E-02  494613.2 3761237.1   725.1     3.40     4.00
3.16     YES                    NO
 L0000052         0   0.62500E-02  494619.5 3761231.2   724.7     3.40     4.00
3.16     YES                    NO
 L0000053         0   0.62500E-02  494625.8 3761225.4   724.6     3.40     4.00
3.16     YES                    NO
 L0000054         0   0.62500E-02  494632.1 3761219.5   724.2     3.40     4.00
3.16     YES                    NO
 L0000055         0   0.62500E-02  494638.4 3761213.7   723.5     3.40     4.00
3.16     YES                    NO
 L0000056         0   0.62500E-02  494644.7 3761207.9   722.9     3.40     4.00
3.16     YES                    NO
 L0000057         0   0.62500E-02  494651.0 3761202.0   722.8     3.40     4.00
3.16     YES                    NO
 L0000058         0   0.62500E-02  494657.3 3761196.2   722.2     3.40     4.00
3.16     YES                    NO
 L0000059         0   0.62500E-02  494663.6 3761190.3   722.0     3.40     4.00
3.16     YES                    NO
 L0000060         0   0.62500E-02  494669.9 3761184.5   722.1     3.40     4.00
3.16     YES                    NO
 L0000061         0   0.62500E-02  494676.2 3761178.7   722.4     3.40     4.00
3.16     YES                    NO
 L0000062         0   0.62500E-02  494682.5 3761172.8   722.2     3.40     4.00
3.16     YES                    NO
 L0000063         0   0.62500E-02  494688.5 3761166.7   722.0     3.40     4.00
3.16     YES                    NO
 L0000064         0   0.62500E-02  494694.3 3761160.4   721.8     3.40     4.00
3.16     YES                    NO
 L0000065         0   0.62500E-02  494700.1 3761154.0   721.6     3.40     4.00
3.16     YES                    NO
 L0000066         0   0.62500E-02  494705.9 3761147.7   721.7     3.40     4.00
3.16     YES                    NO
 L0000067         0   0.62500E-02  494711.7 3761141.4   721.6     3.40     4.00
3.16     YES                    NO
 L0000068         0   0.62500E-02  494717.5 3761135.0   721.3     3.40     4.00
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3.16   YES   NO
 L0000069   0   0.62500E-02 494723.3 3761128.7   720.8   3.40   4.00
3.16   YES   NO
 L0000070   0   0.62500E-02 494729.1 3761122.4   720.3   3.40   4.00
3.16   YES   NO
 L0000071   0   0.62500E-02 494734.9 3761116.0   720.1   3.40   4.00
3.16   YES   NO
 L0000072   0   0.62500E-02 494740.7 3761109.7   719.9   3.40   4.00
3.16   YES   NO
 L0000073   0   0.48913E-02 494398.0 3761483.6   728.6   3.40   4.00
3.16   YES   NO
 L0000074   0   0.48913E-02 494389.4 3761483.6   728.4   3.40   4.00
3.16   YES   NO
 L0000075   0   0.48913E-02 494380.8 3761483.6   728.2   3.40   4.00
3.16   YES   NO
 L0000076   0   0.48913E-02 494372.3 3761483.6   728.0   3.40   4.00
3.16   YES   NO
 L0000077   0   0.48913E-02 494370.6 3761477.5   728.0   3.40   4.00
3.16   YES   NO
 L0000078   0   0.48913E-02 494371.7 3761469.0   728.1   3.40   4.00
3.16   YES   NO

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
 -
- -

 L0000079   0   0.48913E-02 494372.7 3761460.4   728.1   3.40   4.00
3.16   YES   NO
 L0000080   0   0.48913E-02 494373.8 3761451.9   728.1   3.40   4.00
3.16   YES   NO
 L0000081   0   0.48913E-02 494374.9 3761443.4   728.1   3.40   4.00
3.16   YES   NO
 L0000082   0   0.48913E-02 494375.9 3761434.9   728.1   3.40   4.00
3.16   YES   NO
 L0000083   0   0.48913E-02 494377.0 3761426.4   728.1   3.40   4.00

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3.16     YES                  NO
 L0000084         0   0.48913E-02  494378.1 3761417.8   728.1     3.40     4.00
3.16     YES                  NO
 L0000085         0   0.48913E-02  494379.1 3761409.3   728.1     3.40     4.00
3.16     YES                  NO
 L0000086         0   0.48913E-02  494380.2 3761400.8   728.1     3.40     4.00
3.16     YES                  NO
 L0000087         0   0.48913E-02  494381.3 3761392.3   728.1     3.40     4.00
3.16     YES                  NO
 L0000088         0   0.48913E-02  494384.3 3761384.3   728.1     3.40     4.00
3.16     YES                  NO
 L0000089         0   0.48913E-02  494387.6 3761376.3   728.2     3.40     4.00
3.16     YES                  NO
 L0000090         0   0.48913E-02  494390.9 3761368.4   728.1     3.40     4.00
3.16     YES                  NO
 L0000091         0   0.48913E-02  494394.2 3761360.5   728.0     3.40     4.00
3.16     YES                  NO
 L0000092         0   0.48913E-02  494397.5 3761352.5   727.9     3.40     4.00
3.16     YES                  NO
 L0000093         0   0.48913E-02  494401.9 3761345.3   727.9     3.40     4.00
3.16     YES                  NO
 L0000094         0   0.48913E-02  494407.5 3761338.8   728.0     3.40     4.00
3.16     YES                  NO
 L0000095         0   0.48913E-02  494413.2 3761332.3   728.0     3.40     4.00
3.16     YES                  NO
 L0000096         0   0.48913E-02  494418.8 3761325.8   728.3     3.40     4.00
3.16     YES                  NO
 L0000097         0   0.48913E-02  494424.4 3761319.3   728.4     3.40     4.00
3.16     YES                  NO
 L0000098         0   0.48913E-02  494431.7 3761315.3   728.5     3.40     4.00
3.16     YES                  NO
 L0000099         0   0.48913E-02  494439.9 3761312.8   728.8     3.40     4.00
3.16     YES                  NO
 L0000100         0   0.48913E-02  494448.1 3761310.2   729.0     3.40     4.00
3.16     YES                  NO
 L0000101         0   0.48913E-02  494456.3 3761307.6   729.0     3.40     4.00
3.16     YES                  NO
 L0000102         0   0.48913E-02  494464.5 3761305.7   729.0     3.40     4.00
3.16     YES                  NO
 L0000103         0   0.48913E-02  494473.0 3761307.1   729.2     3.40     4.00
3.16     YES                  NO
 L0000104         0   0.48913E-02  494481.5 3761308.5   729.4     3.40     4.00
3.16     YES                  NO
 L0000105         0   0.48913E-02  494489.9 3761309.9   729.6     3.40     4.00
3.16     YES                  NO
 L0000106         0   0.48913E-02  494498.4 3761311.3   729.8     3.40     4.00
3.16     YES                  NO
 L0000107         0   0.48913E-02  494506.9 3761312.7   730.0     3.40     4.00
3.16     YES                  NO
 L0000108         0   0.48913E-02  494515.4 3761314.0   730.2     3.40     4.00
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY	AIRCRAFT
L0000119	0	0.48913E-02	494603.1	3761348.3	726.8	3.40	4.00	3.16	YES	NO	
L0000120	0	0.48913E-02	494611.0	3761351.6	726.5	3.40	4.00	3.16	YES	NO	
L0000121	0	0.48913E-02	494618.9	3761355.0	726.4	3.40	4.00	3.16	YES	NO	
L0000122	0	0.48913E-02	494626.9	3761358.3	726.7	3.40	4.00	3.16	YES	NO	
L0000123	0	0.48913E-02	494634.8	3761361.7	727.9	3.40	4.00				

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3.16     YES                    NO
 L0000124         0   0.48913E-02  494642.7 3761365.1   729.3     3.40     4.00
3.16     YES                    NO
 L0000125         0   0.48913E-02  494650.6 3761368.4   730.8     3.40     4.00
3.16     YES                    NO
 L0000126         0   0.48913E-02  494658.5 3761371.8   731.8     3.40     4.00
3.16     YES                    NO
 L0000127         0   0.48913E-02  494666.4 3761375.1   732.5     3.40     4.00
3.16     YES                    NO
 L0000128         0   0.48913E-02  494674.3 3761378.5   733.2     3.40     4.00
3.16     YES                    NO
 L0000129         0   0.48913E-02  494678.4 3761382.6   733.5     3.40     4.00
3.16     YES                    NO
 L0000130         0   0.48913E-02  494672.3 3761388.8   733.3     3.40     4.00
3.16     YES                    NO
 L0000131         0   0.48913E-02  494666.3 3761394.9   733.1     3.40     4.00
3.16     YES                    NO
 L0000132         0   0.48913E-02  494660.3 3761401.0   733.0     3.40     4.00
3.16     YES                    NO
 L0000133         0   0.48913E-02  494654.3 3761407.2   732.9     3.40     4.00
3.16     YES                    NO
 L0000134         0   0.48913E-02  494648.3 3761413.3   732.7     3.40     4.00
3.16     YES                    NO
 L0000135         0   0.48913E-02  494642.3 3761419.5   732.3     3.40     4.00
3.16     YES                    NO
 L0000136         0   0.48913E-02  494636.3 3761425.6   732.1     3.40     4.00
3.16     YES                    NO
 L0000137         0   0.48913E-02  494630.7 3761432.1   732.0     3.40     4.00
3.16     YES                    NO
 L0000138         0   0.48913E-02  494625.4 3761438.9   731.8     3.40     4.00
3.16     YES                    NO
 L0000139         0   0.48913E-02  494620.2 3761445.7   731.6     3.40     4.00
3.16     YES                    NO
 L0000140         0   0.48913E-02  494614.9 3761452.4   731.4     3.40     4.00
3.16     YES                    NO
 L0000141         0   0.48913E-02  494609.6 3761459.2   731.3     3.40     4.00
3.16     YES                    NO
 L0000142         0   0.48913E-02  494604.3 3761466.0   731.2     3.40     4.00
3.16     YES                    NO
 L0000143         0   0.48913E-02  494599.0 3761472.7   731.2     3.40     4.00
3.16     YES                    NO
 L0000144         0   0.48913E-02  494593.7 3761479.5   731.0     3.40     4.00
3.16     YES                    NO
 L0000145         0   0.48913E-02  494588.4 3761486.3   730.9     3.40     4.00
3.16     YES                    NO
 L0000146         0   0.48913E-02  494583.1 3761493.0   730.9     3.40     4.00
3.16     YES                    NO
 L0000147         0   0.48913E-02  494577.8 3761499.8   730.8     3.40     4.00
3.16     YES                    NO
 L0000148         0   0.48913E-02  494572.5 3761506.6   730.9     3.40     4.00
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3.16   YES   NO
 L0000149   0   0.48913E-02 494567.1 3761513.2   730.9   3.40   4.00
3.16   YES   NO
 L0000150   0   0.48913E-02 494561.6 3761519.9   730.8   3.40   4.00
3.16   YES   NO
 L0000151   0   0.48913E-02 494556.2 3761526.5   730.7   3.40   4.00
3.16   YES   NO
 L0000152   0   0.48913E-02 494550.7 3761533.1   730.6   3.40   4.00
3.16   YES   NO
 L0000153   0   0.48913E-02 494545.2 3761539.7   730.7   3.40   4.00
3.16   YES   NO
 L0000154   0   0.48913E-02 494539.7 3761546.3   730.7   3.40   4.00
3.16   YES   NO
 L0000155   0   0.48913E-02 494534.2 3761552.9   730.6   3.40   4.00
3.16   YES   NO
 L0000156   0   0.48913E-02 494528.7 3761559.5   730.5   3.40   4.00
3.16   YES   NO
 L0000157   0   0.48913E-02 494523.2 3761566.1   730.3   3.40   4.00
3.16   YES   NO
 L0000158   0   0.48913E-02 494517.7 3761572.7   730.5   3.40   4.00
3.16   YES   NO

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                  *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
 -
- -

 L0000159   0   0.48913E-02 494512.4 3761579.4   730.5   3.40   4.00
3.16   YES   NO
 L0000160   0   0.48913E-02 494507.5 3761586.5   730.5   3.40   4.00
3.16   YES   NO
 L0000161   0   0.48913E-02 494502.7 3761593.6   730.5   3.40   4.00
3.16   YES   NO
 L0000162   0   0.48913E-02 494497.8 3761600.7   730.5   3.40   4.00
3.16   YES   NO
 L0000163   0   0.48913E-02 494493.0 3761607.8   730.6   3.40   4.00

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3.16     YES                    NO
 L0000164         0   0.48913E-02  494488.2 3761614.9   730.6     3.40     4.00
3.16     YES                    NO
 L0000165         0   0.45045E-03  494395.9 3761482.3   728.5     3.40     4.00
3.16     YES                    NO
 L0000166         0   0.45045E-03  494387.4 3761481.8   728.3     3.40     4.00
3.16     YES                    NO
 L0000167         0   0.45045E-03  494378.8 3761481.2   728.2     3.40     4.00
3.16     YES                    NO
 L0000168         0   0.45045E-03  494370.2 3761480.7   728.0     3.40     4.00
3.16     YES                    NO
 L0000169         0   0.45045E-03  494367.5 3761475.5   727.9     3.40     4.00
3.16     YES                    NO
 L0000170         0   0.45045E-03  494368.9 3761467.0   728.1     3.40     4.00
3.16     YES                    NO
 L0000171         0   0.45045E-03  494370.2 3761458.5   728.1     3.40     4.00
3.16     YES                    NO
 L0000172         0   0.45045E-03  494371.6 3761450.0   728.1     3.40     4.00
3.16     YES                    NO
 L0000173         0   0.45045E-03  494373.0 3761441.6   728.1     3.40     4.00
3.16     YES                    NO
 L0000174         0   0.45045E-03  494374.3 3761433.1   728.1     3.40     4.00
3.16     YES                    NO
 L0000175         0   0.45045E-03  494375.7 3761424.6   728.1     3.40     4.00
3.16     YES                    NO
 L0000176         0   0.45045E-03  494377.9 3761416.3   728.1     3.40     4.00
3.16     YES                    NO
 L0000177         0   0.45045E-03  494380.5 3761408.1   728.2     3.40     4.00
3.16     YES                    NO
 L0000178         0   0.45045E-03  494383.1 3761399.9   728.2     3.40     4.00
3.16     YES                    NO
 L0000179         0   0.45045E-03  494385.7 3761391.8   728.2     3.40     4.00
3.16     YES                    NO
 L0000180         0   0.45045E-03  494388.3 3761383.6   728.2     3.40     4.00
3.16     YES                    NO
 L0000181         0   0.45045E-03  494390.9 3761375.4   728.2     3.40     4.00
3.16     YES                    NO
 L0000182         0   0.45045E-03  494393.6 3761367.2   728.2     3.40     4.00
3.16     YES                    NO
 L0000183         0   0.45045E-03  494396.2 3761359.0   728.0     3.40     4.00
3.16     YES                    NO
 L0000184         0   0.45045E-03  494398.8 3761350.8   727.9     3.40     4.00
3.16     YES                    NO
 L0000185         0   0.45045E-03  494402.8 3761343.5   727.9     3.40     4.00
3.16     YES                    NO
 L0000186         0   0.45045E-03  494408.7 3761337.2   728.0     3.40     4.00
3.16     YES                    NO
 L0000187         0   0.45045E-03  494414.5 3761330.9   728.1     3.40     4.00
3.16     YES                    NO
 L0000188         0   0.45045E-03  494420.4 3761324.6   728.4     3.40     4.00
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3.16   YES   NO
 L0000189   0   0.45045E-03 494426.2 3761318.3   728.4   3.40   4.00
3.16   YES   NO
 L0000190   0   0.45045E-03 494434.4 3761315.9   728.6   3.40   4.00
3.16   YES   NO
 L0000191   0   0.45045E-03 494442.7 3761313.6   728.9   3.40   4.00
3.16   YES   NO
 L0000192   0   0.45045E-03 494450.9 3761311.3   729.1   3.40   4.00
3.16   YES   NO
 L0000193   0   0.45045E-03 494459.2 3761309.0   729.1   3.40   4.00
3.16   YES   NO
 L0000194   0   0.45045E-03 494467.5 3761306.8   729.1   3.40   4.00
3.16   YES   NO
 L0000195   0   0.45045E-03 494475.9 3761308.2   729.3   3.40   4.00
3.16   YES   NO
 L0000196   0   0.45045E-03 494484.3 3761310.1   729.6   3.40   4.00
3.16   YES   NO
 L0000197   0   0.45045E-03 494492.6 3761312.0   729.8   3.40   4.00
3.16   YES   NO
 L0000198   0   0.45045E-03 494501.0 3761313.9   729.9   3.40   4.00
3.16   YES   NO

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                  *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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- -

 L0000199   0   0.45045E-03 494509.4 3761315.7   730.0   3.40   4.00
3.16   YES   NO
 L0000200   0   0.45045E-03 494517.8 3761317.6   730.2   3.40   4.00
3.16   YES   NO
 L0000201   0   0.45045E-03 494525.8 3761320.7   730.4   3.40   4.00
3.16   YES   NO
 L0000202   0   0.45045E-03 494533.7 3761324.0   730.6   3.40   4.00
3.16   YES   NO
 L0000203   0   0.45045E-03 494541.6 3761327.4   730.8   3.40   4.00

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3.16     YES                    NO
 L0000204         0   0.45045E-03  494549.5 3761330.8   730.9     3.40     4.00
3.16     YES                    NO
 L0000205         0   0.45045E-03  494557.4 3761334.1   730.9     3.40     4.00
3.16     YES                    NO
 L0000206         0   0.45045E-03  494565.3 3761337.5   730.8     3.40     4.00
3.16     YES                    NO
 L0000207         0   0.45045E-03  494573.2 3761340.9   730.8     3.40     4.00
3.16     YES                    NO
 L0000208         0   0.45045E-03  494581.1 3761344.3   729.5     3.40     4.00
3.16     YES                    NO
 L0000209         0   0.45045E-03  494589.0 3761347.6   728.3     3.40     4.00
3.16     YES                    NO
 L0000210         0   0.45045E-03  494596.9 3761351.0   727.2     3.40     4.00
3.16     YES                    NO
 L0000211         0   0.45045E-03  494604.8 3761354.4   726.7     3.40     4.00
3.16     YES                    NO
 L0000212         0   0.45045E-03  494612.7 3761357.7   726.6     3.40     4.00
3.16     YES                    NO
 L0000213         0   0.45045E-03  494620.6 3761361.1   726.6     3.40     4.00
3.16     YES                    NO
 L0000214         0   0.45045E-03  494628.5 3761364.5   727.2     3.40     4.00
3.16     YES                    NO
 L0000215         0   0.45045E-03  494636.4 3761367.9   728.6     3.40     4.00
3.16     YES                    NO
 L0000216         0   0.45045E-03  494644.3 3761371.2   730.1     3.40     4.00
3.16     YES                    NO
 L0000217         0   0.45045E-03  494652.2 3761374.6   731.4     3.40     4.00
3.16     YES                    NO
 L0000218         0   0.45045E-03  494660.1 3761378.0   732.2     3.40     4.00
3.16     YES                    NO
 L0000219         0   0.45045E-03  494668.0 3761381.3   732.9     3.40     4.00
3.16     YES                    NO
 L0000220         0   0.45045E-03  494675.9 3761384.7   733.5     3.40     4.00
3.16     YES                    NO
 L0000221         0   0.45045E-03  494683.8 3761388.1   733.6     3.40     4.00
3.16     YES                    NO
 L0000222         0   0.45045E-03  494691.7 3761391.5   733.8     3.40     4.00
3.16     YES                    NO
 L0000223         0   0.45045E-03  494699.6 3761394.8   733.9     3.40     4.00
3.16     YES                    NO
 L0000224         0   0.45045E-03  494707.5 3761398.2   733.9     3.40     4.00
3.16     YES                    NO
 L0000225         0   0.45045E-03  494715.4 3761401.6   733.9     3.40     4.00
3.16     YES                    NO
 L0000226         0   0.45045E-03  494723.3 3761404.9   734.0     3.40     4.00
3.16     YES                    NO
 L0000227         0   0.45045E-03  494731.2 3761408.3   734.0     3.40     4.00
3.16     YES                    NO
 L0000228         0   0.45045E-03  494739.1 3761411.7   734.2     3.40     4.00
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3.16   YES   NO
 L0000229   0   0.45045E-03 494747.0 3761415.1   734.3   3.40   4.00
3.16   YES   NO
 L0000230   0   0.45045E-03 494754.9 3761418.4   734.5   3.40   4.00
3.16   YES   NO
 L0000231   0   0.45045E-03 494762.8 3761421.8   734.7   3.40   4.00
3.16   YES   NO
 L0000232   0   0.45045E-03 494768.8 3761427.9   735.0   3.40   4.00
3.16   YES   NO
 L0000233   0   0.45045E-03 494774.8 3761434.1   735.2   3.40   4.00
3.16   YES   NO
 L0000234   0   0.45045E-03 494780.8 3761440.2   735.3   3.40   4.00
3.16   YES   NO
 L0000235   0   0.45045E-03 494786.8 3761446.4   735.5   3.40   4.00
3.16   YES   NO
 L0000236   0   0.45045E-03 494792.9 3761452.5   735.7   3.40   4.00
3.16   YES   NO
 L0000237   0   0.45045E-03 494798.9 3761458.6   735.9   3.40   4.00
3.16   YES   NO
 L0000238   0   0.45045E-03 494804.9 3761464.8   736.1   3.40   4.00
3.16   YES   NO

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                  *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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- -

 L0000239   0   0.45045E-03 494810.9 3761470.9   736.2   3.40   4.00
3.16   YES   NO
 L0000240   0   0.45045E-03 494812.4 3761479.3   736.2   3.40   4.00
3.16   YES   NO
 L0000241   0   0.45045E-03 494813.8 3761487.8   736.3   3.40   4.00
3.16   YES   NO
 L0000242   0   0.45045E-03 494815.3 3761496.3   736.4   3.40   4.00
3.16   YES   NO
 L0000243   0   0.45045E-03 494816.7 3761504.7   736.5   3.40   4.00

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3.16     YES                    NO
 L0000244         0   0.45045E-03  494818.2 3761513.2   736.7     3.40     4.00
3.16     YES                    NO
 L0000245         0   0.45045E-03  494819.6 3761521.7   736.9     3.40     4.00
3.16     YES                    NO
 L0000246         0   0.45045E-03  494820.2 3761530.2   737.0     3.40     4.00
3.16     YES                    NO
 L0000247         0   0.45045E-03  494819.6 3761538.8   737.1     3.40     4.00
3.16     YES                    NO
 L0000248         0   0.45045E-03  494819.0 3761547.3   737.1     3.40     4.00
3.16     YES                    NO
 L0000249         0   0.45045E-03  494818.4 3761555.9   737.2     3.40     4.00
3.16     YES                    NO
 L0000250         0   0.45045E-03  494817.8 3761564.5   737.2     3.40     4.00
3.16     YES                    NO
 L0000251         0   0.45045E-03  494817.2 3761573.0   737.3     3.40     4.00
3.16     YES                    NO
 L0000252         0   0.45045E-03  494816.6 3761581.6   737.3     3.40     4.00
3.16     YES                    NO
 L0000253         0   0.45045E-03  494816.0 3761590.2   737.4     3.40     4.00
3.16     YES                    NO
 L0000254         0   0.45045E-03  494815.4 3761598.8   737.4     3.40     4.00
3.16     YES                    NO
 L0000255         0   0.45045E-03  494814.9 3761607.3   737.5     3.40     4.00
3.16     YES                    NO
 L0000256         0   0.45045E-03  494814.3 3761615.9   737.5     3.40     4.00
3.16     YES                    NO
 L0000257         0   0.45045E-03  494813.7 3761624.5   737.5     3.40     4.00
3.16     YES                    NO
 L0000258         0   0.45045E-03  494813.1 3761633.0   737.6     3.40     4.00
3.16     YES                    NO
 L0000259         0   0.45045E-03  494812.5 3761641.6   737.6     3.40     4.00
3.16     YES                    NO
 L0000260         0   0.45045E-03  494811.9 3761650.2   737.6     3.40     4.00
3.16     YES                    NO
 L0000261         0   0.45045E-03  494811.3 3761658.7   737.7     3.40     4.00
3.16     YES                    NO
 L0000262         0   0.45045E-03  494810.7 3761667.3   737.7     3.40     4.00
3.16     YES                    NO
 L0000263         0   0.45045E-03  494810.1 3761675.9   737.7     3.40     4.00
3.16     YES                    NO
 L0000264         0   0.45045E-03  494809.5 3761684.4   737.8     3.40     4.00
3.16     YES                    NO
 L0000265         0   0.45045E-03  494808.9 3761693.0   737.8     3.40     4.00
3.16     YES                    NO
 L0000266         0   0.45045E-03  494808.3 3761701.6   737.8     3.40     4.00
3.16     YES                    NO
 L0000267         0   0.45045E-03  494807.7 3761710.2   737.8     3.40     4.00
3.16     YES                    NO
 L0000268         0   0.45045E-03  494807.2 3761718.7   737.8     3.40     4.00
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE SCALAR VARY BY	EMISSION RATE AIRCRAFT
L0000279	0	0.34014E-03	494371.0	3761479.0	728.0	3.40	4.00	3.16	YES	NO
L0000280	0	0.34014E-03	494371.7	3761470.5	728.1	3.40	4.00	3.16	YES	NO
L0000281	0	0.34014E-03	494372.4	3761461.9	728.1	3.40	4.00	3.16	YES	NO
L0000282	0	0.34014E-03	494373.1	3761453.3	728.1	3.40	4.00	3.16	YES	NO
L0000283	0	0.34014E-03	494373.8	3761444.8	728.1	3.40	4.00			

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3.16     YES                  NO
 L0000284         0   0.34014E-03  494374.5 3761436.2   728.1     3.40     4.00
3.16     YES                  NO
 L0000285         0   0.34014E-03  494375.2 3761427.6   728.1     3.40     4.00
3.16     YES                  NO
 L0000286         0   0.34014E-03  494375.9 3761419.1   728.1     3.40     4.00
3.16     YES                  NO
 L0000287         0   0.34014E-03  494378.0 3761410.8   728.1     3.40     4.00
3.16     YES                  NO
 L0000288         0   0.34014E-03  494380.8 3761402.7   728.1     3.40     4.00
3.16     YES                  NO
 L0000289         0   0.34014E-03  494383.5 3761394.5   728.2     3.40     4.00
3.16     YES                  NO
 L0000290         0   0.34014E-03  494386.2 3761386.4   728.2     3.40     4.00
3.16     YES                  NO
 L0000291         0   0.34014E-03  494388.9 3761378.2   728.2     3.40     4.00
3.16     YES                  NO
 L0000292         0   0.34014E-03  494391.6 3761370.1   728.2     3.40     4.00
3.16     YES                  NO
 L0000293         0   0.34014E-03  494394.3 3761361.9   728.0     3.40     4.00
3.16     YES                  NO
 L0000294         0   0.34014E-03  494398.0 3761354.3   728.0     3.40     4.00
3.16     YES                  NO
 L0000295         0   0.34014E-03  494403.3 3761347.5   728.0     3.40     4.00
3.16     YES                  NO
 L0000296         0   0.34014E-03  494408.7 3761340.8   728.2     3.40     4.00
3.16     YES                  NO
 L0000297         0   0.34014E-03  494414.0 3761334.1   728.2     3.40     4.00
3.16     YES                  NO
 L0000298         0   0.34014E-03  494419.3 3761327.3   728.4     3.40     4.00
3.16     YES                  NO
 L0000299         0   0.34014E-03  494425.2 3761321.4   728.4     3.40     4.00
3.16     YES                  NO
 L0000300         0   0.34014E-03  494433.1 3761317.9   728.6     3.40     4.00
3.16     YES                  NO
 L0000301         0   0.34014E-03  494441.0 3761314.4   728.8     3.40     4.00
3.16     YES                  NO
 L0000302         0   0.34014E-03  494448.8 3761311.0   729.1     3.40     4.00
3.16     YES                  NO
 L0000303         0   0.34014E-03  494456.7 3761307.5   729.0     3.40     4.00
3.16     YES                  NO
 L0000304         0   0.34014E-03  494465.0 3761307.4   729.1     3.40     4.00
3.16     YES                  NO
 L0000305         0   0.34014E-03  494473.5 3761308.6   729.3     3.40     4.00
3.16     YES                  NO
 L0000306         0   0.34014E-03  494482.0 3761309.9   729.5     3.40     4.00
3.16     YES                  NO
 L0000307         0   0.34014E-03  494490.5 3761311.1   729.7     3.40     4.00
3.16     YES                  NO
 L0000308         0   0.34014E-03  494499.0 3761312.4   729.8     3.40     4.00
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3.16   YES   NO
 L0000309   0   0.34014E-03 494507.5 3761313.6   730.0   3.40   4.00
3.16   YES   NO
 L0000310   0   0.34014E-03 494515.5 3761316.6   730.2   3.40   4.00
3.16   YES   NO
 L0000311   0   0.34014E-03 494523.4 3761320.1   730.3   3.40   4.00
3.16   YES   NO
 L0000312   0   0.34014E-03 494531.2 3761323.5   730.5   3.40   4.00
3.16   YES   NO
 L0000313   0   0.34014E-03 494539.1 3761327.0   730.7   3.40   4.00
3.16   YES   NO
 L0000314   0   0.34014E-03 494547.0 3761330.4   730.9   3.40   4.00
3.16   YES   NO
 L0000315   0   0.34014E-03 494554.8 3761333.8   730.9   3.40   4.00
3.16   YES   NO
 L0000316   0   0.34014E-03 494562.7 3761337.3   730.9   3.40   4.00
3.16   YES   NO
 L0000317   0   0.34014E-03 494570.6 3761340.7   730.8   3.40   4.00
3.16   YES   NO
 L0000318   0   0.34014E-03 494578.4 3761344.2   729.9   3.40   4.00
3.16   YES   NO

                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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- -

 L0000319   0   0.34014E-03 494586.3 3761347.6   728.7   3.40   4.00
3.16   YES   NO
 L0000320   0   0.34014E-03 494594.2 3761351.1   727.5   3.40   4.00
3.16   YES   NO
 L0000321   0   0.34014E-03 494602.0 3761354.5   726.7   3.40   4.00
3.16   YES   NO
 L0000322   0   0.34014E-03 494609.9 3761358.0   726.6   3.40   4.00
3.16   YES   NO
 L0000323   0   0.34014E-03 494617.8 3761361.4   726.6   3.40   4.00

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3.16     YES                    NO
 L0000324         0   0.34014E-03  494625.6 3761364.9   726.9     3.40     4.00
3.16     YES                    NO
 L0000325         0   0.34014E-03  494633.5 3761368.3   728.2     3.40     4.00
3.16     YES                    NO
 L0000326         0   0.34014E-03  494641.4 3761371.8   729.7     3.40     4.00
3.16     YES                    NO
 L0000327         0   0.34014E-03  494649.3 3761375.2   731.1     3.40     4.00
3.16     YES                    NO
 L0000328         0   0.34014E-03  494657.1 3761378.7   732.0     3.40     4.00
3.16     YES                    NO
 L0000329         0   0.34014E-03  494665.0 3761382.1   732.7     3.40     4.00
3.16     YES                    NO
 L0000330         0   0.34014E-03  494672.9 3761385.5   733.3     3.40     4.00
3.16     YES                    NO
 L0000331         0   0.34014E-03  494680.7 3761389.0   733.6     3.40     4.00
3.16     YES                    NO
 L0000332         0   0.34014E-03  494688.6 3761392.4   733.8     3.40     4.00
3.16     YES                    NO
 L0000333         0   0.34014E-03  494696.5 3761395.9   733.9     3.40     4.00
3.16     YES                    NO
 L0000334         0   0.34014E-03  494704.3 3761399.3   734.0     3.40     4.00
3.16     YES                    NO
 L0000335         0   0.34014E-03  494712.2 3761402.8   734.0     3.40     4.00
3.16     YES                    NO
 L0000336         0   0.34014E-03  494720.1 3761406.2   734.0     3.40     4.00
3.16     YES                    NO
 L0000337         0   0.34014E-03  494727.9 3761409.7   734.0     3.40     4.00
3.16     YES                    NO
 L0000338         0   0.34014E-03  494726.6 3761416.9   734.1     3.40     4.00
3.16     YES                    NO
 L0000339         0   0.34014E-03  494723.3 3761424.8   734.3     3.40     4.00
3.16     YES                    NO
 L0000340         0   0.34014E-03  494720.1 3761432.8   734.4     3.40     4.00
3.16     YES                    NO
 L0000341         0   0.34014E-03  494716.8 3761440.7   734.5     3.40     4.00
3.16     YES                    NO
 L0000342         0   0.34014E-03  494713.6 3761448.7   734.5     3.40     4.00
3.16     YES                    NO
 L0000343         0   0.34014E-03  494710.3 3761456.6   734.6     3.40     4.00
3.16     YES                    NO
 L0000344         0   0.34014E-03  494707.1 3761464.6   734.6     3.40     4.00
3.16     YES                    NO
 L0000345         0   0.34014E-03  494703.9 3761472.5   734.6     3.40     4.00
3.16     YES                    NO
 L0000346         0   0.34014E-03  494700.6 3761480.5   734.6     3.40     4.00
3.16     YES                    NO
 L0000347         0   0.34014E-03  494697.4 3761488.4   734.6     3.40     4.00
3.16     YES                    NO
 L0000348         0   0.34014E-03  494694.1 3761496.4   734.6     3.40     4.00
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3.16   YES   NO
 L0000349   0   0.34014E-03 494690.9 3761504.4   734.6   3.40   4.00
3.16   YES   NO
 L0000350   0   0.34014E-03 494687.6 3761512.3   734.7   3.40   4.00
3.16   YES   NO
 L0000351   0   0.34014E-03 494684.4 3761520.3   734.7   3.40   4.00
3.16   YES   NO
 L0000352   0   0.34014E-03 494681.1 3761528.2   734.7   3.40   4.00
3.16   YES   NO
 L0000353   0   0.34014E-03 494677.9 3761536.2   734.8   3.40   4.00
3.16   YES   NO
 L0000354   0   0.34014E-03 494674.6 3761544.1   734.8   3.40   4.00
3.16   YES   NO
 L0000355   0   0.34014E-03 494671.4 3761552.1   734.8   3.40   4.00
3.16   YES   NO
 L0000356   0   0.34014E-03 494668.2 3761560.0   734.9   3.40   4.00
3.16   YES   NO
 L0000357   0   0.34014E-03 494664.9 3761568.0   734.9   3.40   4.00
3.16   YES   NO
 L0000358   0   0.34014E-03 494661.7 3761575.9   734.9   3.40   4.00
3.16   YES   NO

                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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- -

 L0000359   0   0.34014E-03 494658.4 3761583.9   734.9   3.40   4.00
3.16   YES   NO
 L0000360   0   0.34014E-03 494655.2 3761591.8   734.9   3.40   4.00
3.16   YES   NO
 L0000361   0   0.34014E-03 494651.9 3761599.8   734.9   3.40   4.00
3.16   YES   NO
 L0000362   0   0.34014E-03 494648.7 3761607.7   734.9   3.40   4.00
3.16   YES   NO
 L0000363   0   0.34014E-03 494645.4 3761615.7   734.9   3.40   4.00

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3.16     YES                    NO
 L0000364         0   0.34014E-03  494642.2 3761623.7   734.9     3.40     4.00
3.16     YES                    NO
 L0000365         0   0.34014E-03  494638.9 3761631.6   734.9     3.40     4.00
3.16     YES                    NO
 L0000366         0   0.34014E-03  494635.7 3761639.6   734.9     3.40     4.00
3.16     YES                    NO
 L0000367         0   0.34014E-03  494632.5 3761647.5   734.9     3.40     4.00
3.16     YES                    NO
 L0000368         0   0.34014E-03  494629.2 3761655.5   734.8     3.40     4.00
3.16     YES                    NO
 L0000369         0   0.34014E-03  494626.0 3761663.4   734.8     3.40     4.00
3.16     YES                    NO
 L0000370         0   0.34014E-03  494622.7 3761671.4   734.8     3.40     4.00
3.16     YES                    NO
 L0000371         0   0.34014E-03  494619.5 3761679.3   734.8     3.40     4.00
3.16     YES                    NO
 L0000372         0   0.34014E-03  494616.2 3761687.3   734.7     3.40     4.00
3.16     YES                    NO
 L0000373         0   0.34014E-03  494613.0 3761695.2   734.6     3.40     4.00
3.16     YES                    NO
 L0000374         0   0.34014E-03  494609.7 3761703.2   734.5     3.40     4.00
3.16     YES                    NO
 L0000375         0   0.34014E-03  494606.5 3761711.1   734.5     3.40     4.00
3.16     YES                    NO
 L0000376         0   0.34014E-03  494603.3 3761719.1   734.4     3.40     4.00
3.16     YES                    NO
 L0000377         0   0.34014E-03  494600.0 3761727.0   734.4     3.40     4.00
3.16     YES                    NO
 L0000378         0   0.34014E-03  494596.8 3761735.0   734.3     3.40     4.00
3.16     YES                    NO
 L0000379         0   0.34014E-03  494593.5 3761743.0   734.3     3.40     4.00
3.16     YES                    NO
 L0000380         0   0.34014E-03  494590.3 3761750.9   734.2     3.40     4.00
3.16     YES                    NO
 L0000381         0   0.34014E-03  494587.0 3761758.9   734.2     3.40     4.00
3.16     YES                    NO
 L0000382         0   0.34014E-03  494583.8 3761766.8   734.1     3.40     4.00
3.16     YES                    NO
 L0000383         0   0.34014E-03  494580.5 3761774.8   734.1     3.40     4.00
3.16     YES                    NO
 L0000384         0   0.34014E-03  494577.3 3761782.7   734.0     3.40     4.00
3.16     YES                    NO
 L0000385         0   0.34014E-03  494574.0 3761790.7   734.0     3.40     4.00
3.16     YES                    NO
 L0000386         0   0.34014E-03  494570.8 3761798.6   733.9     3.40     4.00
3.16     YES                    NO
 L0000387         0   0.34014E-03  494567.6 3761806.6   733.9     3.40     4.00
3.16     YES                    NO
 L0000388         0   0.34014E-03  494564.3 3761814.5   733.9     3.40     4.00
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY	AIRCRAFT
L0000399	0	0.34014E-03	494528.6	3761902.0	733.6	3.40	4.00	3.16	YES	NO	
L0000400	0	0.34014E-03	494525.4	3761910.0	733.6	3.40	4.00	3.16	YES	NO	
L0000401	0	0.34014E-03	494522.1	3761917.9	733.6	3.40	4.00	3.16	YES	NO	
L0000402	0	0.34014E-03	494518.9	3761925.9	733.6	3.40	4.00	3.16	YES	NO	
L0000403	0	0.34014E-03	494515.6	3761933.8	733.6	3.40	4.00				

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3.16     YES                    NO
 L0000404         0   0.34014E-03  494512.4 3761941.8   733.6     3.40     4.00
3.16     YES                    NO
 L0000405         0   0.34014E-03  494509.1 3761949.7   733.6     3.40     4.00
3.16     YES                    NO
 L0000406         0   0.34014E-03  494505.9 3761957.7   733.6     3.40     4.00
3.16     YES                    NO
 L0000407         0   0.34014E-03  494502.6 3761965.7   733.6     3.40     4.00
3.16     YES                    NO
 L0000408         0   0.34014E-03  494499.4 3761973.6   733.5     3.40     4.00
3.16     YES                    NO
 L0000409         0   0.34014E-03  494496.2 3761981.6   733.5     3.40     4.00
3.16     YES                    NO
 L0000410         0   0.34014E-03  494492.9 3761989.5   733.5     3.40     4.00
3.16     YES                    NO
 L0000411         0   0.34014E-03  494489.7 3761997.5   733.5     3.40     4.00
3.16     YES                    NO
 L0000412         0   0.34014E-03  494486.4 3762005.4   733.5     3.40     4.00
3.16     YES                    NO
 L0000413         0   0.34014E-03  494483.2 3762013.4   733.5     3.40     4.00
3.16     YES                    NO
 L0000414         0   0.34014E-03  494479.9 3762021.3   733.5     3.40     4.00
3.16     YES                    NO
 L0000415         0   0.34014E-03  494476.7 3762029.3   733.5     3.40     4.00
3.16     YES                    NO
 L0000416         0   0.34014E-03  494473.4 3762037.2   733.4     3.40     4.00
3.16     YES                    NO
 L0000417         0   0.34014E-03  494470.2 3762045.2   733.4     3.40     4.00
3.16     YES                    NO
 L0000418         0   0.34014E-03  494466.9 3762053.1   733.4     3.40     4.00
3.16     YES                    NO
 L0000419         0   0.34014E-03  494463.7 3762061.1   733.3     3.40     4.00
3.16     YES                    NO
 L0000420         0   0.34014E-03  494460.5 3762069.0   733.2     3.40     4.00
3.16     YES                    NO
 L0000421         0   0.34014E-03  494457.2 3762077.0   733.2     3.40     4.00
3.16     YES                    NO
 L0000422         0   0.34014E-03  494454.0 3762085.0   733.2     3.40     4.00
3.16     YES                    NO
 L0000423         0   0.45045E-03  494395.9 3761482.3   728.5     3.40     4.00
3.16     YES                    NO
 L0000424         0   0.45045E-03  494387.4 3761481.8   728.3     3.40     4.00
3.16     YES                    NO
 L0000425         0   0.45045E-03  494378.8 3761481.2   728.2     3.40     4.00
3.16     YES                    NO
 L0000426         0   0.45045E-03  494370.2 3761480.7   728.0     3.40     4.00
3.16     YES                    NO
 L0000427         0   0.45045E-03  494367.5 3761475.5   727.9     3.40     4.00
3.16     YES                    NO
 L0000428         0   0.45045E-03  494368.9 3761467.0   728.1     3.40     4.00
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3.16   YES   NO
 L0000429   0   0.45045E-03 494370.2 3761458.5   728.1   3.40   4.00
3.16   YES   NO
 L0000430   0   0.45045E-03 494371.6 3761450.0   728.1   3.40   4.00
3.16   YES   NO
 L0000431   0   0.45045E-03 494373.0 3761441.6   728.1   3.40   4.00
3.16   YES   NO
 L0000432   0   0.45045E-03 494374.3 3761433.1   728.1   3.40   4.00
3.16   YES   NO
 L0000433   0   0.45045E-03 494375.7 3761424.6   728.1   3.40   4.00
3.16   YES   NO
 L0000434   0   0.45045E-03 494377.9 3761416.3   728.1   3.40   4.00
3.16   YES   NO
 L0000435   0   0.45045E-03 494380.5 3761408.1   728.2   3.40   4.00
3.16   YES   NO
 L0000436   0   0.45045E-03 494383.1 3761399.9   728.2   3.40   4.00
3.16   YES   NO
 L0000437   0   0.45045E-03 494385.7 3761391.8   728.2   3.40   4.00
3.16   YES   NO
 L0000438   0   0.45045E-03 494388.3 3761383.6   728.2   3.40   4.00
3.16   YES   NO

                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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- -

 L0000439   0   0.45045E-03 494390.9 3761375.4   728.2   3.40   4.00
3.16   YES   NO
 L0000440   0   0.45045E-03 494393.6 3761367.2   728.2   3.40   4.00
3.16   YES   NO
 L0000441   0   0.45045E-03 494396.2 3761359.0   728.0   3.40   4.00
3.16   YES   NO
 L0000442   0   0.45045E-03 494398.8 3761350.8   727.9   3.40   4.00
3.16   YES   NO
 L0000443   0   0.45045E-03 494402.8 3761343.5   727.9   3.40   4.00

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3.16     YES                    NO
 L0000444         0   0.45045E-03  494408.7 3761337.2   728.0     3.40     4.00
3.16     YES                    NO
 L0000445         0   0.45045E-03  494414.5 3761330.9   728.1     3.40     4.00
3.16     YES                    NO
 L0000446         0   0.45045E-03  494420.4 3761324.6   728.4     3.40     4.00
3.16     YES                    NO
 L0000447         0   0.45045E-03  494426.2 3761318.3   728.4     3.40     4.00
3.16     YES                    NO
 L0000448         0   0.45045E-03  494434.4 3761315.9   728.6     3.40     4.00
3.16     YES                    NO
 L0000449         0   0.45045E-03  494442.7 3761313.6   728.9     3.40     4.00
3.16     YES                    NO
 L0000450         0   0.45045E-03  494450.9 3761311.3   729.1     3.40     4.00
3.16     YES                    NO
 L0000451         0   0.45045E-03  494459.2 3761309.0   729.1     3.40     4.00
3.16     YES                    NO
 L0000452         0   0.45045E-03  494467.5 3761306.8   729.1     3.40     4.00
3.16     YES                    NO
 L0000453         0   0.45045E-03  494475.9 3761308.2   729.3     3.40     4.00
3.16     YES                    NO
 L0000454         0   0.45045E-03  494484.3 3761310.1   729.6     3.40     4.00
3.16     YES                    NO
 L0000455         0   0.45045E-03  494492.6 3761312.0   729.8     3.40     4.00
3.16     YES                    NO
 L0000456         0   0.45045E-03  494501.0 3761313.9   729.9     3.40     4.00
3.16     YES                    NO
 L0000457         0   0.45045E-03  494509.4 3761315.7   730.0     3.40     4.00
3.16     YES                    NO
 L0000458         0   0.45045E-03  494517.8 3761317.6   730.2     3.40     4.00
3.16     YES                    NO
 L0000459         0   0.45045E-03  494525.8 3761320.7   730.4     3.40     4.00
3.16     YES                    NO
 L0000460         0   0.45045E-03  494533.7 3761324.0   730.6     3.40     4.00
3.16     YES                    NO
 L0000461         0   0.45045E-03  494541.6 3761327.4   730.8     3.40     4.00
3.16     YES                    NO
 L0000462         0   0.45045E-03  494549.5 3761330.8   730.9     3.40     4.00
3.16     YES                    NO
 L0000463         0   0.45045E-03  494557.4 3761334.1   730.9     3.40     4.00
3.16     YES                    NO
 L0000464         0   0.45045E-03  494565.3 3761337.5   730.8     3.40     4.00
3.16     YES                    NO
 L0000465         0   0.45045E-03  494573.2 3761340.9   730.8     3.40     4.00
3.16     YES                    NO
 L0000466         0   0.45045E-03  494581.1 3761344.3   729.5     3.40     4.00
3.16     YES                    NO
 L0000467         0   0.45045E-03  494589.0 3761347.6   728.3     3.40     4.00
3.16     YES                    NO
 L0000468         0   0.45045E-03  494596.9 3761351.0   727.2     3.40     4.00
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3.16     YES                    NO
 L0000469         0   0.45045E-03  494604.8 3761354.4   726.7     3.40     4.00
3.16     YES                    NO
 L0000470         0   0.45045E-03  494612.7 3761357.7   726.6     3.40     4.00
3.16     YES                    NO
 L0000471         0   0.45045E-03  494620.6 3761361.1   726.6     3.40     4.00
3.16     YES                    NO
 L0000472         0   0.45045E-03  494628.5 3761364.5   727.2     3.40     4.00
3.16     YES                    NO
 L0000473         0   0.45045E-03  494636.4 3761367.9   728.6     3.40     4.00
3.16     YES                    NO
 L0000474         0   0.45045E-03  494644.3 3761371.2   730.1     3.40     4.00
3.16     YES                    NO
 L0000475         0   0.45045E-03  494652.2 3761374.6   731.4     3.40     4.00
3.16     YES                    NO
 L0000476         0   0.45045E-03  494660.1 3761378.0   732.2     3.40     4.00
3.16     YES                    NO
 L0000477         0   0.45045E-03  494668.0 3761381.3   732.9     3.40     4.00
3.16     YES                    NO
 L0000478         0   0.45045E-03  494675.9 3761384.7   733.5     3.40     4.00
3.16     YES                    NO
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                       ***        08:18:30

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

 L0000479         0   0.45045E-03  494683.8 3761388.1   733.6     3.40     4.00
3.16     YES                    NO
 L0000480         0   0.45045E-03  494691.7 3761391.5   733.8     3.40     4.00
3.16     YES                    NO
 L0000481         0   0.45045E-03  494699.6 3761394.8   733.9     3.40     4.00
3.16     YES                    NO
 L0000482         0   0.45045E-03  494707.5 3761398.2   733.9     3.40     4.00
3.16     YES                    NO
 L0000483         0   0.45045E-03  494715.4 3761401.6   733.9     3.40     4.00
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3.16     YES                    NO
 L0000484         0   0.45045E-03  494723.3 3761404.9   734.0     3.40     4.00
3.16     YES                    NO
 L0000485         0   0.45045E-03  494731.2 3761408.3   734.0     3.40     4.00
3.16     YES                    NO
 L0000486         0   0.45045E-03  494739.1 3761411.7   734.2     3.40     4.00
3.16     YES                    NO
 L0000487         0   0.45045E-03  494747.0 3761415.1   734.3     3.40     4.00
3.16     YES                    NO
 L0000488         0   0.45045E-03  494754.9 3761418.4   734.5     3.40     4.00
3.16     YES                    NO
 L0000489         0   0.45045E-03  494762.8 3761421.8   734.7     3.40     4.00
3.16     YES                    NO
 L0000490         0   0.45045E-03  494768.8 3761427.9   735.0     3.40     4.00
3.16     YES                    NO
 L0000491         0   0.45045E-03  494774.8 3761434.1   735.2     3.40     4.00
3.16     YES                    NO
 L0000492         0   0.45045E-03  494780.8 3761440.2   735.3     3.40     4.00
3.16     YES                    NO
 L0000493         0   0.45045E-03  494786.8 3761446.4   735.5     3.40     4.00
3.16     YES                    NO
 L0000494         0   0.45045E-03  494792.9 3761452.5   735.7     3.40     4.00
3.16     YES                    NO
 L0000495         0   0.45045E-03  494798.9 3761458.6   735.9     3.40     4.00
3.16     YES                    NO
 L0000496         0   0.45045E-03  494804.9 3761464.8   736.1     3.40     4.00
3.16     YES                    NO
 L0000497         0   0.45045E-03  494810.9 3761470.9   736.2     3.40     4.00
3.16     YES                    NO
 L0000498         0   0.45045E-03  494812.4 3761479.3   736.2     3.40     4.00
3.16     YES                    NO
 L0000499         0   0.45045E-03  494813.8 3761487.8   736.3     3.40     4.00
3.16     YES                    NO
 L0000500         0   0.45045E-03  494815.3 3761496.3   736.4     3.40     4.00
3.16     YES                    NO
 L0000501         0   0.45045E-03  494816.7 3761504.7   736.5     3.40     4.00
3.16     YES                    NO
 L0000502         0   0.45045E-03  494818.2 3761513.2   736.7     3.40     4.00
3.16     YES                    NO
 L0000503         0   0.45045E-03  494819.6 3761521.7   736.9     3.40     4.00
3.16     YES                    NO
 L0000504         0   0.45045E-03  494820.2 3761530.2   737.0     3.40     4.00
3.16     YES                    NO
 L0000505         0   0.45045E-03  494819.6 3761538.8   737.1     3.40     4.00
3.16     YES                    NO
 L0000506         0   0.45045E-03  494819.0 3761547.3   737.1     3.40     4.00
3.16     YES                    NO
 L0000507         0   0.45045E-03  494818.4 3761555.9   737.2     3.40     4.00
3.16     YES                    NO
 L0000508         0   0.45045E-03  494817.8 3761564.5   737.2     3.40     4.00
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3.16   YES   NO
 L0000509   0   0.45045E-03 494817.2 3761573.0   737.3   3.40   4.00
3.16   YES   NO
 L0000510   0   0.45045E-03 494816.6 3761581.6   737.3   3.40   4.00
3.16   YES   NO
 L0000511   0   0.45045E-03 494816.0 3761590.2   737.4   3.40   4.00
3.16   YES   NO
 L0000512   0   0.45045E-03 494815.4 3761598.8   737.4   3.40   4.00
3.16   YES   NO
 L0000513   0   0.45045E-03 494814.9 3761607.3   737.5   3.40   4.00
3.16   YES   NO
 L0000514   0   0.45045E-03 494814.3 3761615.9   737.5   3.40   4.00
3.16   YES   NO
 L0000515   0   0.45045E-03 494813.7 3761624.5   737.5   3.40   4.00
3.16   YES   NO
 L0000516   0   0.45045E-03 494813.1 3761633.0   737.6   3.40   4.00
3.16   YES   NO
 L0000517   0   0.45045E-03 494812.5 3761641.6   737.6   3.40   4.00
3.16   YES   NO
 L0000518   0   0.45045E-03 494811.9 3761650.2   737.6   3.40   4.00
3.16   YES   NO

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                  *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
 -
- -

 L0000519   0   0.45045E-03 494811.3 3761658.7   737.7   3.40   4.00
3.16   YES   NO
 L0000520   0   0.45045E-03 494810.7 3761667.3   737.7   3.40   4.00
3.16   YES   NO
 L0000521   0   0.45045E-03 494810.1 3761675.9   737.7   3.40   4.00
3.16   YES   NO
 L0000522   0   0.45045E-03 494809.5 3761684.4   737.8   3.40   4.00
3.16   YES   NO
 L0000523   0   0.45045E-03 494808.9 3761693.0   737.8   3.40   4.00

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3.16     YES                    NO
 L0000524         0   0.45045E-03  494808.3 3761701.6   737.8     3.40     4.00
3.16     YES                    NO
 L0000525         0   0.45045E-03  494807.7 3761710.2   737.8     3.40     4.00
3.16     YES                    NO
 L0000526         0   0.45045E-03  494807.2 3761718.7   737.8     3.40     4.00
3.16     YES                    NO
 L0000527         0   0.45045E-03  494806.6 3761727.3   737.8     3.40     4.00
3.16     YES                    NO
 L0000528         0   0.45045E-03  494806.0 3761735.9   737.8     3.40     4.00
3.16     YES                    NO
 L0000529         0   0.45045E-03  494805.4 3761744.4   737.8     3.40     4.00
3.16     YES                    NO
 L0000530         0   0.45045E-03  494804.8 3761753.0   737.8     3.40     4.00
3.16     YES                    NO
 L0000531         0   0.45045E-03  494804.2 3761761.6   737.8     3.40     4.00
3.16     YES                    NO
 L0000532         0   0.45045E-03  494803.6 3761770.1   737.8     3.40     4.00
3.16     YES                    NO
 L0000533         0   0.45045E-03  494803.0 3761778.7   737.8     3.40     4.00
3.16     YES                    NO
 L0000534         0   0.34014E-03  494394.9 3761484.0   728.5     3.40     4.00
3.16     YES                    NO
 L0000535         0   0.34014E-03  494386.4 3761482.8   728.3     3.40     4.00
3.16     YES                    NO
 L0000536         0   0.34014E-03  494377.9 3761481.5   728.1     3.40     4.00
3.16     YES                    NO
 L0000537         0   0.34014E-03  494371.0 3761479.0   728.0     3.40     4.00
3.16     YES                    NO
 L0000538         0   0.34014E-03  494371.7 3761470.5   728.1     3.40     4.00
3.16     YES                    NO
 L0000539         0   0.34014E-03  494372.4 3761461.9   728.1     3.40     4.00
3.16     YES                    NO
 L0000540         0   0.34014E-03  494373.1 3761453.3   728.1     3.40     4.00
3.16     YES                    NO
 L0000541         0   0.34014E-03  494373.8 3761444.8   728.1     3.40     4.00
3.16     YES                    NO
 L0000542         0   0.34014E-03  494374.5 3761436.2   728.1     3.40     4.00
3.16     YES                    NO
 L0000543         0   0.34014E-03  494375.2 3761427.6   728.1     3.40     4.00
3.16     YES                    NO
 L0000544         0   0.34014E-03  494375.9 3761419.1   728.1     3.40     4.00
3.16     YES                    NO
 L0000545         0   0.34014E-03  494378.0 3761410.8   728.1     3.40     4.00
3.16     YES                    NO
 L0000546         0   0.34014E-03  494380.8 3761402.7   728.1     3.40     4.00
3.16     YES                    NO
 L0000547         0   0.34014E-03  494383.5 3761394.5   728.2     3.40     4.00
3.16     YES                    NO
 L0000548         0   0.34014E-03  494386.2 3761386.4   728.2     3.40     4.00
```

3.16   YES   NO
 L0000549   0   0.34014E-03 494388.9 3761378.2   728.2   3.40   4.00
3.16   YES   NO
 L0000550   0   0.34014E-03 494391.6 3761370.1   728.2   3.40   4.00
3.16   YES   NO
 L0000551   0   0.34014E-03 494394.3 3761361.9   728.0   3.40   4.00
3.16   YES   NO
 L0000552   0   0.34014E-03 494398.0 3761354.3   728.0   3.40   4.00
3.16   YES   NO
 L0000553   0   0.34014E-03 494403.3 3761347.5   728.0   3.40   4.00
3.16   YES   NO
 L0000554   0   0.34014E-03 494408.7 3761340.8   728.2   3.40   4.00
3.16   YES   NO
 L0000555   0   0.34014E-03 494414.0 3761334.1   728.2   3.40   4.00
3.16   YES   NO
 L0000556   0   0.34014E-03 494419.3 3761327.3   728.4   3.40   4.00
3.16   YES   NO
 L0000557   0   0.34014E-03 494425.2 3761321.4   728.4   3.40   4.00
3.16   YES   NO
 L0000558   0   0.34014E-03 494433.1 3761317.9   728.6   3.40   4.00
3.16   YES   NO

                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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- -

 L0000559   0   0.34014E-03 494441.0 3761314.4   728.8   3.40   4.00
3.16   YES   NO
 L0000560   0   0.34014E-03 494448.8 3761311.0   729.1   3.40   4.00
3.16   YES   NO
 L0000561   0   0.34014E-03 494456.7 3761307.5   729.0   3.40   4.00
3.16   YES   NO
 L0000562   0   0.34014E-03 494465.0 3761307.4   729.1   3.40   4.00
3.16   YES   NO
 L0000563   0   0.34014E-03 494473.5 3761308.6   729.3   3.40   4.00

```
3.16     YES                    NO
 L0000564         0   0.34014E-03  494482.0 3761309.9   729.5     3.40     4.00
3.16     YES                    NO
 L0000565         0   0.34014E-03  494490.5 3761311.1   729.7     3.40     4.00
3.16     YES                    NO
 L0000566         0   0.34014E-03  494499.0 3761312.4   729.8     3.40     4.00
3.16     YES                    NO
 L0000567         0   0.34014E-03  494507.5 3761313.6   730.0     3.40     4.00
3.16     YES                    NO
 L0000568         0   0.34014E-03  494515.5 3761316.6   730.2     3.40     4.00
3.16     YES                    NO
 L0000569         0   0.34014E-03  494523.4 3761320.1   730.3     3.40     4.00
3.16     YES                    NO
 L0000570         0   0.34014E-03  494531.2 3761323.5   730.5     3.40     4.00
3.16     YES                    NO
 L0000571         0   0.34014E-03  494539.1 3761327.0   730.7     3.40     4.00
3.16     YES                    NO
 L0000572         0   0.34014E-03  494547.0 3761330.4   730.9     3.40     4.00
3.16     YES                    NO
 L0000573         0   0.34014E-03  494554.8 3761333.8   730.9     3.40     4.00
3.16     YES                    NO
 L0000574         0   0.34014E-03  494562.7 3761337.3   730.9     3.40     4.00
3.16     YES                    NO
 L0000575         0   0.34014E-03  494570.6 3761340.7   730.8     3.40     4.00
3.16     YES                    NO
 L0000576         0   0.34014E-03  494578.4 3761344.2   729.9     3.40     4.00
3.16     YES                    NO
 L0000577         0   0.34014E-03  494586.3 3761347.6   728.7     3.40     4.00
3.16     YES                    NO
 L0000578         0   0.34014E-03  494594.2 3761351.1   727.5     3.40     4.00
3.16     YES                    NO
 L0000579         0   0.34014E-03  494602.0 3761354.5   726.7     3.40     4.00
3.16     YES                    NO
 L0000580         0   0.34014E-03  494609.9 3761358.0   726.6     3.40     4.00
3.16     YES                    NO
 L0000581         0   0.34014E-03  494617.8 3761361.4   726.6     3.40     4.00
3.16     YES                    NO
 L0000582         0   0.34014E-03  494625.6 3761364.9   726.9     3.40     4.00
3.16     YES                    NO
 L0000583         0   0.34014E-03  494633.5 3761368.3   728.2     3.40     4.00
3.16     YES                    NO
 L0000584         0   0.34014E-03  494641.4 3761371.8   729.7     3.40     4.00
3.16     YES                    NO
 L0000585         0   0.34014E-03  494649.3 3761375.2   731.1     3.40     4.00
3.16     YES                    NO
 L0000586         0   0.34014E-03  494657.1 3761378.7   732.0     3.40     4.00
3.16     YES                    NO
 L0000587         0   0.34014E-03  494665.0 3761382.1   732.7     3.40     4.00
3.16     YES                    NO
 L0000588         0   0.34014E-03  494672.9 3761385.5   733.3     3.40     4.00
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3.16   YES   NO
 L0000589   0   0.34014E-03 494680.7 3761389.0   733.6   3.40   4.00
3.16   YES   NO
 L0000590   0   0.34014E-03 494688.6 3761392.4   733.8   3.40   4.00
3.16   YES   NO
 L0000591   0   0.34014E-03 494696.5 3761395.9   733.9   3.40   4.00
3.16   YES   NO
 L0000592   0   0.34014E-03 494704.3 3761399.3   734.0   3.40   4.00
3.16   YES   NO
 L0000593   0   0.34014E-03 494712.2 3761402.8   734.0   3.40   4.00
3.16   YES   NO
 L0000594   0   0.34014E-03 494720.1 3761406.2   734.0   3.40   4.00
3.16   YES   NO
 L0000595   0   0.34014E-03 494727.9 3761409.7   734.0   3.40   4.00
3.16   YES   NO
 L0000596   0   0.34014E-03 494726.6 3761416.9   734.1   3.40   4.00
3.16   YES   NO
 L0000597   0   0.34014E-03 494723.3 3761424.8   734.3   3.40   4.00
3.16   YES   NO
 L0000598   0   0.34014E-03 494720.1 3761432.8   734.4   3.40   4.00
3.16   YES   NO

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                  *** VOLUME SOURCE DATA ***

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INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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- -

 L0000599   0   0.34014E-03 494716.8 3761440.7   734.5   3.40   4.00
3.16   YES   NO
 L0000600   0   0.34014E-03 494713.6 3761448.7   734.5   3.40   4.00
3.16   YES   NO
 L0000601   0   0.34014E-03 494710.3 3761456.6   734.6   3.40   4.00
3.16   YES   NO
 L0000602   0   0.34014E-03 494707.1 3761464.6   734.6   3.40   4.00
3.16   YES   NO
 L0000603   0   0.34014E-03 494703.9 3761472.5   734.6   3.40   4.00

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3.16     YES                    NO
 L0000604         0   0.34014E-03  494700.6 3761480.5   734.6     3.40     4.00
3.16     YES                    NO
 L0000605         0   0.34014E-03  494697.4 3761488.4   734.6     3.40     4.00
3.16     YES                    NO
 L0000606         0   0.34014E-03  494694.1 3761496.4   734.6     3.40     4.00
3.16     YES                    NO
 L0000607         0   0.34014E-03  494690.9 3761504.4   734.6     3.40     4.00
3.16     YES                    NO
 L0000608         0   0.34014E-03  494687.6 3761512.3   734.7     3.40     4.00
3.16     YES                    NO
 L0000609         0   0.34014E-03  494684.4 3761520.3   734.7     3.40     4.00
3.16     YES                    NO
 L0000610         0   0.34014E-03  494681.1 3761528.2   734.7     3.40     4.00
3.16     YES                    NO
 L0000611         0   0.34014E-03  494677.9 3761536.2   734.8     3.40     4.00
3.16     YES                    NO
 L0000612         0   0.34014E-03  494674.6 3761544.1   734.8     3.40     4.00
3.16     YES                    NO
 L0000613         0   0.34014E-03  494671.4 3761552.1   734.8     3.40     4.00
3.16     YES                    NO
 L0000614         0   0.34014E-03  494668.2 3761560.0   734.9     3.40     4.00
3.16     YES                    NO
 L0000615         0   0.34014E-03  494664.9 3761568.0   734.9     3.40     4.00
3.16     YES                    NO
 L0000616         0   0.34014E-03  494661.7 3761575.9   734.9     3.40     4.00
3.16     YES                    NO
 L0000617         0   0.34014E-03  494658.4 3761583.9   734.9     3.40     4.00
3.16     YES                    NO
 L0000618         0   0.34014E-03  494655.2 3761591.8   734.9     3.40     4.00
3.16     YES                    NO
 L0000619         0   0.34014E-03  494651.9 3761599.8   734.9     3.40     4.00
3.16     YES                    NO
 L0000620         0   0.34014E-03  494648.7 3761607.7   734.9     3.40     4.00
3.16     YES                    NO
 L0000621         0   0.34014E-03  494645.4 3761615.7   734.9     3.40     4.00
3.16     YES                    NO
 L0000622         0   0.34014E-03  494642.2 3761623.7   734.9     3.40     4.00
3.16     YES                    NO
 L0000623         0   0.34014E-03  494638.9 3761631.6   734.9     3.40     4.00
3.16     YES                    NO
 L0000624         0   0.34014E-03  494635.7 3761639.6   734.9     3.40     4.00
3.16     YES                    NO
 L0000625         0   0.34014E-03  494632.5 3761647.5   734.9     3.40     4.00
3.16     YES                    NO
 L0000626         0   0.34014E-03  494629.2 3761655.5   734.8     3.40     4.00
3.16     YES                    NO
 L0000627         0   0.34014E-03  494626.0 3761663.4   734.8     3.40     4.00
3.16     YES                    NO
 L0000628         0   0.34014E-03  494622.7 3761671.4   734.8     3.40     4.00
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3.16   YES   NO
 L0000629   0   0.34014E-03 494619.5 3761679.3   734.8   3.40   4.00
3.16   YES   NO
 L0000630   0   0.34014E-03 494616.2 3761687.3   734.7   3.40   4.00
3.16   YES   NO
 L0000631   0   0.34014E-03 494613.0 3761695.2   734.6   3.40   4.00
3.16   YES   NO
 L0000632   0   0.34014E-03 494609.7 3761703.2   734.5   3.40   4.00
3.16   YES   NO
 L0000633   0   0.34014E-03 494606.5 3761711.1   734.5   3.40   4.00
3.16   YES   NO
 L0000634   0   0.34014E-03 494603.3 3761719.1   734.4   3.40   4.00
3.16   YES   NO
 L0000635   0   0.34014E-03 494600.0 3761727.0   734.4   3.40   4.00
3.16   YES   NO
 L0000636   0   0.34014E-03 494596.8 3761735.0   734.3   3.40   4.00
3.16   YES   NO
 L0000637   0   0.34014E-03 494593.5 3761743.0   734.3   3.40   4.00
3.16   YES   NO
 L0000638   0   0.34014E-03 494590.3 3761750.9   734.2   3.40   4.00
3.16   YES   NO

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                  *** VOLUME SOURCE DATA ***

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INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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- -

 L0000639   0   0.34014E-03 494587.0 3761758.9   734.2   3.40   4.00
3.16   YES   NO
 L0000640   0   0.34014E-03 494583.8 3761766.8   734.1   3.40   4.00
3.16   YES   NO
 L0000641   0   0.34014E-03 494580.5 3761774.8   734.1   3.40   4.00
3.16   YES   NO
 L0000642   0   0.34014E-03 494577.3 3761782.7   734.0   3.40   4.00
3.16   YES   NO
 L0000643   0   0.34014E-03 494574.0 3761790.7   734.0   3.40   4.00

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3.16     YES                  NO
 L0000644         0   0.34014E-03  494570.8 3761798.6   733.9     3.40     4.00
3.16     YES                  NO
 L0000645         0   0.34014E-03  494567.6 3761806.6   733.9     3.40     4.00
3.16     YES                  NO
 L0000646         0   0.34014E-03  494564.3 3761814.5   733.9     3.40     4.00
3.16     YES                  NO
 L0000647         0   0.34014E-03  494561.1 3761822.5   733.9     3.40     4.00
3.16     YES                  NO
 L0000648         0   0.34014E-03  494557.8 3761830.4   733.8     3.40     4.00
3.16     YES                  NO
 L0000649         0   0.34014E-03  494554.6 3761838.4   733.8     3.40     4.00
3.16     YES                  NO
 L0000650         0   0.34014E-03  494551.3 3761846.3   733.8     3.40     4.00
3.16     YES                  NO
 L0000651         0   0.34014E-03  494548.1 3761854.3   733.8     3.40     4.00
3.16     YES                  NO
 L0000652         0   0.34014E-03  494544.8 3761862.3   733.7     3.40     4.00
3.16     YES                  NO
 L0000653         0   0.34014E-03  494541.6 3761870.2   733.7     3.40     4.00
3.16     YES                  NO
 L0000654         0   0.34014E-03  494538.3 3761878.2   733.7     3.40     4.00
3.16     YES                  NO
 L0000655         0   0.34014E-03  494535.1 3761886.1   733.6     3.40     4.00
3.16     YES                  NO
 L0000656         0   0.34014E-03  494531.9 3761894.1   733.6     3.40     4.00
3.16     YES                  NO
 L0000657         0   0.34014E-03  494528.6 3761902.0   733.6     3.40     4.00
3.16     YES                  NO
 L0000658         0   0.34014E-03  494525.4 3761910.0   733.6     3.40     4.00
3.16     YES                  NO
 L0000659         0   0.34014E-03  494522.1 3761917.9   733.6     3.40     4.00
3.16     YES                  NO
 L0000660         0   0.34014E-03  494518.9 3761925.9   733.6     3.40     4.00
3.16     YES                  NO
 L0000661         0   0.34014E-03  494515.6 3761933.8   733.6     3.40     4.00
3.16     YES                  NO
 L0000662         0   0.34014E-03  494512.4 3761941.8   733.6     3.40     4.00
3.16     YES                  NO
 L0000663         0   0.34014E-03  494509.1 3761949.7   733.6     3.40     4.00
3.16     YES                  NO
 L0000664         0   0.34014E-03  494505.9 3761957.7   733.6     3.40     4.00
3.16     YES                  NO
 L0000665         0   0.34014E-03  494502.6 3761965.7   733.6     3.40     4.00
3.16     YES                  NO
 L0000666         0   0.34014E-03  494499.4 3761973.6   733.5     3.40     4.00
3.16     YES                  NO
 L0000667         0   0.34014E-03  494496.2 3761981.6   733.5     3.40     4.00
3.16     YES                  NO
 L0000668         0   0.34014E-03  494492.9 3761989.5   733.5     3.40     4.00
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3.16   YES   NO
 L0000669   0   0.34014E-03 494489.7 3761997.5   733.5   3.40   4.00
3.16   YES   NO
 L0000670   0   0.34014E-03 494486.4 3762005.4   733.5   3.40   4.00
3.16   YES   NO
 L0000671   0   0.34014E-03 494483.2 3762013.4   733.5   3.40   4.00
3.16   YES   NO
 L0000672   0   0.34014E-03 494479.9 3762021.3   733.5   3.40   4.00
3.16   YES   NO
 L0000673   0   0.34014E-03 494476.7 3762029.3   733.5   3.40   4.00
3.16   YES   NO
 L0000674   0   0.34014E-03 494473.4 3762037.2   733.4   3.40   4.00
3.16   YES   NO
 L0000675   0   0.34014E-03 494470.2 3762045.2   733.4   3.40   4.00
3.16   YES   NO
 L0000676   0   0.34014E-03 494466.9 3762053.1   733.4   3.40   4.00
3.16   YES   NO
 L0000677   0   0.34014E-03 494463.7 3762061.1   733.3   3.40   4.00
3.16   YES   NO
 L0000678   0   0.34014E-03 494460.5 3762069.0   733.2   3.40   4.00
3.16   YES   NO

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                  *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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- -

 L0000679   0   0.34014E-03 494457.2 3762077.0   733.2   3.40   4.00
3.16   YES   NO
 L0000680   0   0.34014E-03 494454.0 3762085.0   733.2   3.40   4.00
3.16   YES   NO
 L0000681   0   0.57692E-02 494427.9 3761665.1   730.3   3.40   4.00
3.16   YES   NO
 L0000682   0   0.57692E-02 494430.8 3761657.0   730.2   3.40   4.00
3.16   YES   NO
 L0000683   0   0.57692E-02 494433.8 3761648.9   730.1   3.40   4.00

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3.16     YES                  NO
 L0000684         0   0.57692E-02  494436.7 3761640.8   730.0     3.40     4.00
3.16     YES                  NO
 L0000685         0   0.57692E-02  494439.6 3761632.8   729.8     3.40     4.00
3.16     YES                  NO
 L0000686         0   0.57692E-02  494442.6 3761624.7   729.7     3.40     4.00
3.16     YES                  NO
 L0000687         0   0.57692E-02  494445.5 3761616.6   729.7     3.40     4.00
3.16     YES                  NO
 L0000688         0   0.57692E-02  494448.7 3761608.7   729.7     3.40     4.00
3.16     YES                  NO
 L0000689         0   0.57692E-02  494452.4 3761600.9   729.7     3.40     4.00
3.16     YES                  NO
 L0000690         0   0.57692E-02  494456.1 3761593.1   729.6     3.40     4.00
3.16     YES                  NO
 L0000691         0   0.57692E-02  494459.8 3761585.4   729.5     3.40     4.00
3.16     YES                  NO
 L0000692         0   0.57692E-02  494463.5 3761577.6   729.4     3.40     4.00
3.16     YES                  NO
 L0000693         0   0.57692E-02  494467.2 3761569.9   729.3     3.40     4.00
3.16     YES                  NO
 L0000694         0   0.57692E-02  494470.9 3761562.1   729.2     3.40     4.00
3.16     YES                  NO
 L0000695         0   0.57692E-02  494474.6 3761554.4   729.1     3.40     4.00
3.16     YES                  NO
 L0000696         0   0.57692E-02  494478.3 3761546.6   729.2     3.40     4.00
3.16     YES                  NO
 L0000697         0   0.57692E-02  494480.3 3761538.3   729.2     3.40     4.00
3.16     YES                  NO
 L0000698         0   0.57692E-02  494482.0 3761529.9   729.1     3.40     4.00
3.16     YES                  NO
 L0000699         0   0.57692E-02  494483.7 3761521.5   729.1     3.40     4.00
3.16     YES                  NO
 L0000700         0   0.57692E-02  494485.4 3761513.0   729.1     3.40     4.00
3.16     YES                  NO
 L0000701         0   0.57692E-02  494487.1 3761504.6   729.1     3.40     4.00
3.16     YES                  NO
 L0000702         0   0.57692E-02  494488.8 3761496.2   729.1     3.40     4.00
3.16     YES                  NO
 L0000703         0   0.57692E-02  494490.5 3761487.8   729.1     3.40     4.00
3.16     YES                  NO
 L0000704         0   0.57692E-02  494492.2 3761479.4   729.2     3.40     4.00
3.16     YES                  NO
 L0000705         0   0.57692E-02  494493.9 3761470.9   729.3     3.40     4.00
3.16     YES                  NO
 L0000706         0   0.57692E-02  494495.6 3761462.5   729.3     3.40     4.00
3.16     YES                  NO
 L0000707         0   0.57692E-02  494497.4 3761454.1   729.4     3.40     4.00
3.16     YES                  NO
 L0000708         0   0.57692E-02  494499.3 3761445.7   729.4     3.40     4.00
```

3.16   YES   NO
 L0000709   0   0.57692E-02 494501.2 3761437.4   729.5   3.40   4.00
3.16   YES   NO
 L0000710   0   0.57692E-02 494503.1 3761429.0   729.6   3.40   4.00
3.16   YES   NO
 L0000711   0   0.57692E-02 494505.0 3761420.6   729.6   3.40   4.00
3.16   YES   NO
 L0000712   0   0.57692E-02 494506.9 3761412.2   729.7   3.40   4.00
3.16   YES   NO
 L0000713   0   0.57692E-02 494508.9 3761403.9   729.8   3.40   4.00
3.16   YES   NO
 L0000714   0   0.57692E-02 494510.8 3761395.5   729.9   3.40   4.00
3.16   YES   NO
 L0000715   0   0.57692E-02 494512.7 3761387.1   729.9   3.40   4.00
3.16   YES   NO
 L0000716   0   0.57692E-02 494514.6 3761378.8   730.0   3.40   4.00
3.16   YES   NO
 L0000717   0   0.57692E-02 494516.5 3761370.4   730.1   3.40   4.00
3.16   YES   NO
 L0000718   0   0.57692E-02 494518.4 3761362.0   730.2   3.40   4.00
3.16   YES   NO

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                  *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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- -

 L0000719   0   0.57692E-02 494520.3 3761353.6   730.2   3.40   4.00
3.16   YES   NO
 L0000720   0   0.57692E-02 494522.2 3761345.3   730.3   3.40   4.00
3.16   YES   NO
 L0000721   0   0.57692E-02 494524.2 3761336.9   730.3   3.40   4.00
3.16   YES   NO
 L0000722   0   0.57692E-02 494526.1 3761328.5   730.4   3.40   4.00
3.16   YES   NO
 L0000723   0   0.57692E-02 494522.9 3761323.0   730.3   3.40   4.00

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3.16     YES                  NO
 L0000724         0   0.57692E-02  494514.7 3761320.5   730.2     3.40     4.00
3.16     YES                  NO
 L0000725         0   0.57692E-02  494506.5 3761317.9   730.0     3.40     4.00
3.16     YES                  NO
 L0000726         0   0.57692E-02  494498.3 3761315.4   729.8     3.40     4.00
3.16     YES                  NO
 L0000727         0   0.57692E-02  494490.1 3761312.8   729.7     3.40     4.00
3.16     YES                  NO
 L0000728         0   0.57692E-02  494481.9 3761310.2   729.6     3.40     4.00
3.16     YES                  NO
 L0000729         0   0.57692E-02  494473.6 3761309.2   729.4     3.40     4.00
3.16     YES                  NO
 L0000730         0   0.57692E-02  494465.2 3761310.6   729.3     3.40     4.00
3.16     YES                  NO
 L0000731         0   0.57692E-02  494456.7 3761312.1   729.2     3.40     4.00
3.16     YES                  NO
 L0000732         0   0.57692E-02  494448.2 3761313.6   729.1     3.40     4.00
3.16     YES                  NO
 L0000733         0   0.57692E-02  494439.8 3761315.1   728.8     3.40     4.00
3.16     YES                  NO
 L0000734         0   0.57692E-02  494432.3 3761318.5   728.6     3.40     4.00
3.16     YES                  NO
 L0000735         0   0.57692E-02  494426.4 3761324.7   728.5     3.40     4.00
3.16     YES                  NO
 L0000736         0   0.57692E-02  494420.4 3761330.8   728.5     3.40     4.00
3.16     YES                  NO
 L0000737         0   0.57692E-02  494414.4 3761337.0   728.3     3.40     4.00
3.16     YES                  NO
 L0000738         0   0.57692E-02  494408.4 3761343.2   728.2     3.40     4.00
3.16     YES                  NO
 L0000739         0   0.57692E-02  494402.4 3761349.3   728.0     3.40     4.00
3.16     YES                  NO
 L0000740         0   0.57692E-02  494398.3 3761356.7   728.0     3.40     4.00
3.16     YES                  NO
 L0000741         0   0.57692E-02  494395.2 3761364.7   728.1     3.40     4.00
3.16     YES                  NO
 L0000742         0   0.57692E-02  494392.1 3761372.7   728.3     3.40     4.00
3.16     YES                  NO
 L0000743         0   0.57692E-02  494389.0 3761380.7   728.2     3.40     4.00
3.16     YES                  NO
 L0000744         0   0.57692E-02  494385.9 3761388.7   728.2     3.40     4.00
3.16     YES                  NO
 L0000745         0   0.57692E-02  494382.9 3761396.7   728.2     3.40     4.00
3.16     YES                  NO
 L0000746         0   0.57692E-02  494379.8 3761404.8   728.1     3.40     4.00
3.16     YES                  NO
 L0000747         0   0.57692E-02  494378.5 3761413.2   728.1     3.40     4.00
3.16     YES                  NO
 L0000748         0   0.57692E-02  494377.6 3761421.8   728.1     3.40     4.00
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3.16     YES                    NO
 L0000749         0   0.57692E-02  494376.6 3761430.3   728.1     3.40     4.00
3.16     YES                    NO
 L0000750         0   0.57692E-02  494375.7 3761438.8   728.2     3.40     4.00
3.16     YES                    NO
 L0000751         0   0.57692E-02  494374.7 3761447.4   728.2     3.40     4.00
3.16     YES                    NO
 L0000752         0   0.57692E-02  494373.8 3761455.9   728.2     3.40     4.00
3.16     YES                    NO
 L0000753         0   0.57692E-02  494372.9 3761464.5   728.2     3.40     4.00
3.16     YES                    NO
 L0000754         0   0.57692E-02  494371.9 3761473.0   728.1     3.40     4.00
3.16     YES                    NO
 L0000755         0   0.57692E-02  494371.0 3761481.5   728.0     3.40     4.00
3.16     YES                    NO
 L0000756         0   0.57692E-02  494378.3 3761483.9   728.1     3.40     4.00
3.16     YES                    NO
 L0000757         0   0.57692E-02  494386.8 3761485.5   728.3     3.40     4.00
3.16     YES                    NO
 L0000758         0   0.57692E-02  494395.2 3761487.1   728.5     3.40     4.00
3.16     YES                    NO
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                       ***        08:18:30

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

 L0000759         0   0.37815E-02  494875.0 3760948.8   716.8     3.40     4.00
3.16     YES                    NO
 L0000760         0   0.37815E-02  494871.1 3760956.4   716.7     3.40     4.00
3.16     YES                    NO
 L0000761         0   0.37815E-02  494867.2 3760964.1   716.8     3.40     4.00
3.16     YES                    NO
 L0000762         0   0.37815E-02  494863.2 3760971.7   717.0     3.40     4.00
3.16     YES                    NO
 L0000763         0   0.37815E-02  494859.3 3760979.3   717.2     3.40     4.00
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3.16     YES                    NO
 L0000764         0   0.37815E-02  494855.3 3760987.0   717.4     3.40     4.00
3.16     YES                    NO
 L0000765         0   0.37815E-02  494851.4 3760994.6   717.3     3.40     4.00
3.16     YES                    NO
 L0000766         0   0.37815E-02  494847.5 3761002.2   717.3     3.40     4.00
3.16     YES                    NO
 L0000767         0   0.37815E-02  494843.5 3761009.9   717.4     3.40     4.00
3.16     YES                    NO
 L0000768         0   0.37815E-02  494839.6 3761017.5   717.6     3.40     4.00
3.16     YES                    NO
 L0000769         0   0.37815E-02  494835.7 3761025.1   717.9     3.40     4.00
3.16     YES                    NO
 L0000770         0   0.37815E-02  494831.7 3761032.8   718.2     3.40     4.00
3.16     YES                    NO
 L0000771         0   0.37815E-02  494827.8 3761040.4   718.3     3.40     4.00
3.16     YES                    NO
 L0000772         0   0.37815E-02  494824.3 3761048.3   718.2     3.40     4.00
3.16     YES                    NO
 L0000773         0   0.37815E-02  494821.0 3761056.2   718.3     3.40     4.00
3.16     YES                    NO
 L0000774         0   0.37815E-02  494817.8 3761064.2   718.4     3.40     4.00
3.16     YES                    NO
 L0000775         0   0.37815E-02  494814.5 3761072.1   718.5     3.40     4.00
3.16     YES                    NO
 L0000776         0   0.37815E-02  494811.2 3761080.0   718.7     3.40     4.00
3.16     YES                    NO
 L0000777         0   0.37815E-02  494807.9 3761088.0   718.8     3.40     4.00
3.16     YES                    NO
 L0000778         0   0.37815E-02  494804.7 3761095.9   719.0     3.40     4.00
3.16     YES                    NO
 L0000779         0   0.37815E-02  494801.4 3761103.9   719.1     3.40     4.00
3.16     YES                    NO
 L0000780         0   0.37815E-02  494798.1 3761111.8   719.3     3.40     4.00
3.16     YES                    NO
 L0000781         0   0.37815E-02  494794.8 3761119.7   719.4     3.40     4.00
3.16     YES                    NO
 L0000782         0   0.37815E-02  494791.6 3761127.7   719.7     3.40     4.00
3.16     YES                    NO
 L0000783         0   0.37815E-02  494788.3 3761135.6   720.0     3.40     4.00
3.16     YES                    NO
 L0000784         0   0.37815E-02  494785.0 3761143.6   720.3     3.40     4.00
3.16     YES                    NO
 L0000785         0   0.37815E-02  494783.6 3761152.0   720.5     3.40     4.00
3.16     YES                    NO
 L0000786         0   0.37815E-02  494782.3 3761160.5   720.8     3.40     4.00
3.16     YES                    NO
 L0000787         0   0.37815E-02  494781.0 3761169.0   721.2     3.40     4.00
3.16     YES                    NO
 L0000788         0   0.37815E-02  494779.7 3761177.5   721.6     3.40     4.00
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3.16   YES   NO
 L0000789   0   0.37815E-02 494778.5 3761186.0   721.9   3.40   4.00
3.16   YES   NO
 L0000790   0   0.37815E-02 494777.2 3761194.5   722.4   3.40   4.00
3.16   YES   NO
 L0000791   0   0.37815E-02 494775.9 3761203.0   722.8   3.40   4.00
3.16   YES   NO
 L0000792   0   0.37815E-02 494774.6 3761211.5   723.3   3.40   4.00
3.16   YES   NO
 L0000793   0   0.37815E-02 494773.7 3761220.0   723.8   3.40   4.00
3.16   YES   NO
 L0000794   0   0.37815E-02 494773.0 3761228.6   724.2   3.40   4.00
3.16   YES   NO
 L0000795   0   0.37815E-02 494772.2 3761237.1   724.7   3.40   4.00
3.16   YES   NO
 L0000796   0   0.37815E-02 494771.5 3761245.7   725.2   3.40   4.00
3.16   YES   NO
 L0000797   0   0.37815E-02 494770.7 3761254.2   725.7   3.40   4.00
3.16   YES   NO
 L0000798   0   0.37815E-02 494769.9 3761262.8   726.1   3.40   4.00
3.16   YES   NO

                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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- -

 L0000799   0   0.37815E-02 494769.2 3761271.4   726.5   3.40   4.00
3.16   YES   NO
 L0000800   0   0.37815E-02 494768.4 3761279.9   727.0   3.40   4.00
3.16   YES   NO
 L0000801   0   0.37815E-02 494767.7 3761288.5   727.5   3.40   4.00
3.16   YES   NO
 L0000802   0   0.37815E-02 494766.7 3761297.0   728.1   3.40   4.00
3.16   YES   NO
 L0000803   0   0.37815E-02 494764.1 3761305.2   728.8   3.40   4.00

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3.16     YES                    NO
 L0000804         0   0.37815E-02  494761.5 3761313.4   729.5     3.40     4.00
3.16     YES                    NO
 L0000805         0   0.37815E-02  494758.9 3761321.5   730.2     3.40     4.00
3.16     YES                    NO
 L0000806         0   0.37815E-02  494756.3 3761329.7   730.9     3.40     4.00
3.16     YES                    NO
 L0000807         0   0.37815E-02  494753.7 3761337.9   731.4     3.40     4.00
3.16     YES                    NO
 L0000808         0   0.37815E-02  494751.1 3761346.1   732.0     3.40     4.00
3.16     YES                    NO
 L0000809         0   0.37815E-02  494748.5 3761354.3   732.4     3.40     4.00
3.16     YES                    NO
 L0000810         0   0.37815E-02  494745.9 3761362.5   732.8     3.40     4.00
3.16     YES                    NO
 L0000811         0   0.37815E-02  494743.3 3761370.7   733.2     3.40     4.00
3.16     YES                    NO
 L0000812         0   0.37815E-02  494740.7 3761378.9   733.4     3.40     4.00
3.16     YES                    NO
 L0000813         0   0.37815E-02  494738.1 3761387.0   733.6     3.40     4.00
3.16     YES                    NO
 L0000814         0   0.37815E-02  494735.5 3761395.2   733.8     3.40     4.00
3.16     YES                    NO
 L0000815         0   0.37815E-02  494732.9 3761403.4   733.9     3.40     4.00
3.16     YES                    NO
 L0000816         0   0.37815E-02  494728.1 3761406.7   734.0     3.40     4.00
3.16     YES                    NO
 L0000817         0   0.37815E-02  494720.2 3761403.3   733.9     3.40     4.00
3.16     YES                    NO
 L0000818         0   0.37815E-02  494712.3 3761399.9   733.9     3.40     4.00
3.16     YES                    NO
 L0000819         0   0.37815E-02  494704.4 3761396.5   733.9     3.40     4.00
3.16     YES                    NO
 L0000820         0   0.37815E-02  494696.5 3761393.1   733.8     3.40     4.00
3.16     YES                    NO
 L0000821         0   0.37815E-02  494688.6 3761389.8   733.7     3.40     4.00
3.16     YES                    NO
 L0000822         0   0.37815E-02  494680.7 3761386.4   733.6     3.40     4.00
3.16     YES                    NO
 L0000823         0   0.37815E-02  494672.8 3761383.0   733.2     3.40     4.00
3.16     YES                    NO
 L0000824         0   0.37815E-02  494664.9 3761379.6   732.6     3.40     4.00
3.16     YES                    NO
 L0000825         0   0.37815E-02  494657.1 3761376.2   731.9     3.40     4.00
3.16     YES                    NO
 L0000826         0   0.37815E-02  494649.2 3761372.8   731.0     3.40     4.00
3.16     YES                    NO
 L0000827         0   0.37815E-02  494641.3 3761369.4   729.4     3.40     4.00
3.16     YES                    NO
 L0000828         0   0.37815E-02  494633.4 3761366.0   728.0     3.40     4.00
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3.16   YES   NO
 L0000829   0   0.37815E-02 494625.5 3761362.6   726.7   3.40   4.00
3.16   YES   NO
 L0000830   0   0.37815E-02 494617.6 3761359.2   726.6   3.40   4.00
3.16   YES   NO
 L0000831   0   0.37815E-02 494609.7 3761355.8   726.6   3.40   4.00
3.16   YES   NO
 L0000832   0   0.37815E-02 494601.8 3761352.4   726.7   3.40   4.00
3.16   YES   NO
 L0000833   0   0.37815E-02 494593.9 3761349.0   727.6   3.40   4.00
3.16   YES   NO
 L0000834   0   0.37815E-02 494586.0 3761345.6   728.8   3.40   4.00
3.16   YES   NO
 L0000835   0   0.37815E-02 494578.2 3761342.2   730.1   3.40   4.00
3.16   YES   NO
 L0000836   0   0.37815E-02 494570.3 3761338.8   730.8   3.40   4.00
3.16   YES   NO
 L0000837   0   0.37815E-02 494562.4 3761335.4   730.9   3.40   4.00
3.16   YES   NO
 L0000838   0   0.37815E-02 494554.5 3761332.0   730.9   3.40   4.00
3.16   YES   NO

                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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- -

 L0000839   0   0.37815E-02 494546.6 3761328.6   730.9   3.40   4.00
3.16   YES   NO
 L0000840   0   0.37815E-02 494538.7 3761325.2   730.7   3.40   4.00
3.16   YES   NO
 L0000841   0   0.37815E-02 494530.8 3761321.8   730.5   3.40   4.00
3.16   YES   NO
 L0000842   0   0.37815E-02 494522.7 3761319.2   730.3   3.40   4.00
3.16   YES   NO
 L0000843   0   0.37815E-02 494514.3 3761317.4   730.1   3.40   4.00

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3.16     YES                    NO
 L0000844         0   0.37815E-02  494505.9 3761315.6   730.0     3.40     4.00
3.16     YES                    NO
 L0000845         0   0.37815E-02  494497.5 3761313.7   729.8     3.40     4.00
3.16     YES                    NO
 L0000846         0   0.37815E-02  494489.1 3761311.9   729.7     3.40     4.00
3.16     YES                    NO
 L0000847         0   0.37815E-02  494480.7 3761310.1   729.5     3.40     4.00
3.16     YES                    NO
 L0000848         0   0.37815E-02  494472.3 3761308.3   729.3     3.40     4.00
3.16     YES                    NO
 L0000849         0   0.37815E-02  494463.9 3761306.6   729.1     3.40     4.00
3.16     YES                    NO
 L0000850         0   0.37815E-02  494456.0 3761309.9   729.1     3.40     4.00
3.16     YES                    NO
 L0000851         0   0.37815E-02  494448.1 3761313.3   729.1     3.40     4.00
3.16     YES                    NO
 L0000852         0   0.37815E-02  494440.1 3761316.6   728.8     3.40     4.00
3.16     YES                    NO
 L0000853         0   0.37815E-02  494432.2 3761319.9   728.6     3.40     4.00
3.16     YES                    NO
 L0000854         0   0.37815E-02  494424.3 3761323.2   728.5     3.40     4.00
3.16     YES                    NO
 L0000855         0   0.37815E-02  494417.3 3761327.7   728.2     3.40     4.00
3.16     YES                    NO
 L0000856         0   0.37815E-02  494412.2 3761334.6   728.1     3.40     4.00
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 L0000857         0   0.37815E-02  494407.0 3761341.5   728.1     3.40     4.00
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 L0000858         0   0.37815E-02  494401.9 3761348.4   728.0     3.40     4.00
3.16     YES                    NO
 L0000859         0   0.37815E-02  494396.7 3761355.2   727.9     3.40     4.00
3.16     YES                    NO
 L0000860         0   0.37815E-02  494391.6 3761362.1   727.9     3.40     4.00
3.16     YES                    NO
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3.16     YES                    NO
 L0000862         0   0.37815E-02  494387.7 3761378.7   728.2     3.40     4.00
3.16     YES                    NO
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3.16     YES                    NO
 L0000864         0   0.37815E-02  494384.4 3761395.6   728.2     3.40     4.00
3.16     YES                    NO
 L0000865         0   0.37815E-02  494382.7 3761404.0   728.2     3.40     4.00
3.16     YES                    NO
 L0000866         0   0.37815E-02  494381.0 3761412.4   728.2     3.40     4.00
3.16     YES                    NO
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3.16     YES                    NO
 L0000868         0   0.37815E-02  494377.7 3761429.3   728.2     3.40     4.00
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 L0000870         0   0.37815E-02  494374.3 3761446.1   728.1     3.40     4.00
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3.16     YES                    NO
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3.16     YES                    NO
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3.16     YES                    NO
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3.16     YES                    NO
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3.16     YES                    NO
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3.16     YES                    NO
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                       ***        08:18:30

                                  PAGE  25
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                              *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                          SOURCE IDs
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                       ***        08:18:30

                                  PAGE  28
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

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  BREATHIN   STCK2       ,

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID   SOURCE IDs
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 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                          SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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L0000692 , L0000693 , L0000694 ,

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L0000724 , L0000725 , L0000726 ,

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L0000732 , L0000733 , L0000734 ,

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L0000740 , L0000741 , L0000742 ,

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L0000748 , L0000749 , L0000750 ,

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                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                          SOURCE IDs
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*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
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		L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 ,
		L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 ,
		L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , L0000029 , L0000030 ,
		L0000031 , L0000032 , L0000033 , L0000034 , L0000035 , L0000036 , L0000037 , L0000038 ,
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		L0000047 , L0000048 , L0000049 , L0000050 , L0000051 , L0000052 , L0000053 , L0000054 ,
		L0000055 , L0000056 , L0000057 , L0000058 , L0000059 , L0000060 , L0000061 , L0000062 ,
		L0000063 , L0000064 , L0000065 , L0000066 , L0000067 , L0000068 , L0000069 , L0000070 ,

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↟ *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
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                                   PAGE  38
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** SOURCE IDs DEFINED AS URBAN SOURCES
***

  URBAN ID   URBAN POP                                  SOURCE IDs
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*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
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                                  PAGE  40
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** SOURCE IDs DEFINED AS URBAN SOURCES
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  URBAN ID   URBAN POP                                  SOURCE IDs
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*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
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                                    PAGE  42
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** SOURCE IDs DEFINED AS URBAN SOURCES
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  URBAN ID   URBAN POP                                  SOURCE IDs
  --------   ---------                                  ----------


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L0000828    , L0000829    , L0000830    ,

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L0000836    , L0000837    , L0000838    ,

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L0000860    , L0000861    , L0000862    ,

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L0000868    , L0000869    , L0000870    ,

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L0000876    , L0000877    , STCK1       ,

             STCK2       ,
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
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                                  PAGE  43
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                          *** DIRECTION SPECIFIC BUILDING DIMENSIONS
***


 SOURCE ID: STCK1
  IFV    BH      BW      BL     XADJ    YADJ     IFV    BH      BW      BL     XADJ
  YADJ
    1   10.7,   43.4,   27.5,  -50.7,    4.2,      2   10.7,   42.8,   32.4,  -53.2,
  -2.4,
    3   10.7,   40.9,   36.3,  -54.2,   -9.1,      4   10.7,   37.7,   39.2,  -53.5,
 -15.4,
    5   10.7,   33.4,   40.9,  -51.3,  -21.3,      6    0.0,    0.0,    0.0,    0.0,
```

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  0.0,
   7    0.0,    0.0,    0.0,    0.0,    0.0,      8    0.0,    0.0,    0.0,    0.0,
  0.0,
   9    0.0,    0.0,    0.0,    0.0,    0.0,     10    0.0,    0.0,    0.0,    0.0,
  0.0,
  11    0.0,    0.0,    0.0,    0.0,    0.0,     12    0.0,    0.0,    0.0,    0.0,
  0.0,
  13    0.0,    0.0,    0.0,    0.0,    0.0,     14    0.0,    0.0,    0.0,    0.0,
  0.0,
  15    0.0,    0.0,    0.0,    0.0,    0.0,     16   10.7,   41.3,   22.0,   19.9,
-22.3,
  17    0.0,    0.0,    0.0,    0.0,    0.0,     18    0.0,    0.0,    0.0,    0.0,
  0.0,
  19    0.0,    0.0,    0.0,    0.0,    0.0,     20   10.7,   42.8,   32.4,   20.8,
  2.4,
  21   10.7,   40.9,   36.3,   17.8,    9.1,     22   10.7,   37.7,   39.2,   14.3,
 15.4,
  23   10.7,   33.4,   40.9,   10.4,   21.3,     24    0.0,    0.0,    0.0,    0.0,
  0.0,
  25    0.0,    0.0,    0.0,    0.0,    0.0,     26    0.0,    0.0,    0.0,    0.0,
  0.0,
  27    0.0,    0.0,    0.0,    0.0,    0.0,     28    0.0,    0.0,    0.0,    0.0,
  0.0,
  29    0.0,    0.0,    0.0,    0.0,    0.0,     30    0.0,    0.0,    0.0,    0.0,
  0.0,
  31    0.0,    0.0,    0.0,    0.0,    0.0,     32    0.0,    0.0,    0.0,    0.0,
  0.0,
  33    0.0,    0.0,    0.0,    0.0,    0.0,     34   10.7,   41.3,   22.0,  -41.9,
 22.3,
  35   10.7,   40.7,   17.5,  -43.1,   17.0,     36   10.7,   42.7,   21.8,  -46.6,
 10.8,


SOURCE ID: STCK2
 IFV    BH      BW      BL     XADJ    YADJ     IFV    BH      BW      BL     XADJ
 YADJ
   1   10.7,   43.4,   27.5,  -50.7,    4.2,      2   10.7,   42.8,   32.4,  -53.2,
 -2.4,
   3   10.7,   40.9,   36.3,  -54.2,   -9.1,      4   10.7,   37.7,   39.2,  -53.5,
-15.4,
   5   10.7,   33.4,   40.9,  -51.3,  -21.3,      6    0.0,    0.0,    0.0,    0.0,
  0.0,
   7    0.0,    0.0,    0.0,    0.0,    0.0,      8    0.0,    0.0,    0.0,    0.0,
  0.0,
   9    0.0,    0.0,    0.0,    0.0,    0.0,     10    0.0,    0.0,    0.0,    0.0,
  0.0,
  11    0.0,    0.0,    0.0,    0.0,    0.0,     12    0.0,    0.0,    0.0,    0.0,
  0.0,
  13    0.0,    0.0,    0.0,    0.0,    0.0,     14    0.0,    0.0,    0.0,    0.0,
  0.0,
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  15    0.0,    0.0,    0.0,    0.0,    0.0,     16   10.7,   41.3,   22.0,   19.9,
-22.3,
  17    0.0,    0.0,    0.0,    0.0,    0.0,     18    0.0,    0.0,    0.0,    0.0,
  0.0,
  19    0.0,    0.0,    0.0,    0.0,    0.0,     20   10.7,   42.8,   32.4,   20.8,
  2.4,
  21   10.7,   40.9,   36.3,   17.8,    9.1,     22   10.7,   37.7,   39.2,   14.3,
 15.4,
  23   10.7,   33.4,   40.9,   10.4,   21.3,     24    0.0,    0.0,    0.0,    0.0,
  0.0,
  25    0.0,    0.0,    0.0,    0.0,    0.0,     26    0.0,    0.0,    0.0,    0.0,
  0.0,
  27    0.0,    0.0,    0.0,    0.0,    0.0,     28    0.0,    0.0,    0.0,    0.0,
  0.0,
  29    0.0,    0.0,    0.0,    0.0,    0.0,     30    0.0,    0.0,    0.0,    0.0,
  0.0,
  31    0.0,    0.0,    0.0,    0.0,    0.0,     32    0.0,    0.0,    0.0,    0.0,
  0.0,
  33    0.0,    0.0,    0.0,    0.0,    0.0,     34   10.7,   41.3,   22.0,  -41.9,
 22.3,
  35   10.7,   40.7,   17.5,  -43.1,   17.0,     36   10.7,   42.7,   21.8,  -46.6,
 10.8,

 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                       ***        08:18:30

                                    PAGE  44
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                  (METERS)

     ( 495006.0, 3761336.4,     738.2,     738.9,       0.0);         ( 495146.0,
3761336.4,     733.3,     733.3,       0.0);
     ( 495166.0, 3761336.4,     734.2,     734.2,       0.0);         ( 495186.0,
3761336.4,     734.8,     734.8,       0.0);
     ( 495206.0, 3761336.4,     735.2,     735.2,       0.0);         ( 495226.0,
3761336.4,     735.3,     745.7,       0.0);
     ( 495246.0, 3761336.4,     735.4,     747.8,       0.0);         ( 495266.0,
3761336.4,     735.9,     748.8,       0.0);
     ( 495286.0, 3761336.4,     740.0,     745.7,       0.0);         ( 495306.0,
3761336.4,     743.4,     745.4,       0.0);
     ( 495326.0, 3761336.4,     745.4,     745.4,       0.0);         ( 495346.0,
3761336.4,     745.9,     745.9,       0.0);
     ( 495366.0, 3761336.4,     747.5,     747.5,       0.0);         ( 495386.0,
3761336.4,     748.4,     748.4,       0.0);
     ( 495406.0, 3761336.4,     748.6,     748.6,       0.0);         ( 495006.0,
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```
3761356.4,     738.7,     738.7,       0.0);
     ( 495026.0, 3761356.4,     739.3,     739.3,       0.0);         ( 495046.0,
3761356.4,     739.2,     739.2,       0.0);
     ( 495066.0, 3761356.4,     738.3,     740.2,       0.0);         ( 495086.0,
3761356.4,     735.6,     740.2,       0.0);
     ( 495106.0, 3761356.4,     734.4,     740.8,       0.0);         ( 495126.0,
3761356.4,     734.3,     734.3,       0.0);
     ( 495146.0, 3761356.4,     734.9,     734.9,       0.0);         ( 495166.0,
3761356.4,     735.4,     735.4,       0.0);
     ( 495186.0, 3761356.4,     735.8,     735.8,       0.0);         ( 495206.0,
3761356.4,     736.0,     742.0,       0.0);
     ( 495226.0, 3761356.4,     736.4,     744.7,       0.0);         ( 495246.0,
3761356.4,     737.1,     745.7,       0.0);
     ( 495266.0, 3761356.4,     737.8,     748.8,       0.0);         ( 495286.0,
3761356.4,     741.8,     745.7,       0.0);
     ( 495306.0, 3761356.4,     744.4,     744.4,       0.0);         ( 495326.0,
3761356.4,     745.6,     745.6,       0.0);
     ( 495346.0, 3761356.4,     746.0,     746.0,       0.0);         ( 495366.0,
3761356.4,     747.2,     747.2,       0.0);
     ( 495386.0, 3761356.4,     748.1,     748.1,       0.0);         ( 495406.0,
3761356.4,     748.7,     748.7,       0.0);
     ( 495426.0, 3761356.4,     749.3,     749.3,       0.0);         ( 495446.0,
3761356.4,     750.2,     750.2,       0.0);
     ( 495006.0, 3761376.4,     738.8,     738.8,       0.0);         ( 495026.0,
3761376.4,     739.5,     739.5,       0.0);
     ( 495046.0, 3761376.4,     740.0,     740.0,       0.0);         ( 495066.0,
3761376.4,     739.9,     739.9,       0.0);
     ( 495086.0, 3761376.4,     738.3,     738.3,       0.0);         ( 495106.0,
3761376.4,     736.7,     740.2,       0.0);
     ( 495126.0, 3761376.4,     736.3,     736.3,       0.0);         ( 495146.0,
3761376.4,     736.6,     736.6,       0.0);
     ( 495166.0, 3761376.4,     736.7,     736.7,       0.0);         ( 495186.0,
3761376.4,     736.8,     736.8,       0.0);
     ( 495206.0, 3761376.4,     737.0,     742.0,       0.0);         ( 495226.0,
3761376.4,     737.8,     743.5,       0.0);
     ( 495246.0, 3761376.4,     739.1,     744.7,       0.0);         ( 495266.0,
3761376.4,     740.2,     745.7,       0.0);
     ( 495286.0, 3761376.4,     743.4,     744.4,       0.0);         ( 495306.0,
3761376.4,     745.1,     745.1,       0.0);
     ( 495326.0, 3761376.4,     745.8,     745.8,       0.0);         ( 495346.0,
3761376.4,     746.2,     746.2,       0.0);
     ( 495366.0, 3761376.4,     747.0,     747.0,       0.0);         ( 495386.0,
3761376.4,     747.9,     747.9,       0.0);
     ( 495406.0, 3761376.4,     748.7,     748.7,       0.0);         ( 495426.0,
3761376.4,     749.6,     749.6,       0.0);
     ( 495446.0, 3761376.4,     750.9,     750.9,       0.0);         ( 495466.0,
3761376.4,     751.8,     751.8,       0.0);
     ( 495486.0, 3761376.4,     752.0,     752.0,       0.0);         ( 494986.0,
3761396.4,     738.5,     738.5,       0.0);
     ( 495006.0, 3761396.4,     739.3,     739.3,       0.0);         ( 495026.0,
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3761396.4,   739.8,   739.8,   0.0);
     (495046.0, 3761396.4,   740.2,   740.2,   0.0);   (495066.0,
3761396.4,   740.5,   740.5,   0.0);
     (495086.0, 3761396.4,   739.8,   739.8,   0.0);   (495106.0,
3761396.4,   738.1,   740.2,   0.0);
     (495126.0, 3761396.4,   737.8,   737.8,   0.0);   (495146.0,
3761396.4,   738.1,   738.1,   0.0);
     (495166.0, 3761396.4,   738.3,   738.3,   0.0);   (495186.0,
3761396.4,   738.3,   738.3,   0.0);
     (495206.0, 3761396.4,   738.6,   738.6,   0.0);   (495226.0,
3761396.4,   739.7,   742.0,   0.0);
     (495246.0, 3761396.4,   741.5,   741.5,   0.0);   (495266.0,
3761396.4,   742.7,   743.5,   0.0);
     (495286.0, 3761396.4,   744.2,   744.2,   0.0);   (495306.0,
3761396.4,   745.2,   745.2,   0.0);
     (495326.0, 3761396.4,   746.1,   746.1,   0.0);   (495346.0,
3761396.4,   746.9,   746.9,   0.0);
     (495366.0, 3761396.4,   747.6,   747.6,   0.0);   (495386.0,
3761396.4,   748.3,   748.3,   0.0);
     (495406.0, 3761396.4,   749.0,   749.0,   0.0);   (495426.0,
3761396.4,   749.9,   749.9,   0.0);
     (495446.0, 3761396.4,   751.1,   751.1,   0.0);   (495466.0,
3761396.4,   751.8,   751.8,   0.0);
     (495486.0, 3761396.4,   752.2,   752.2,   0.0);   (495506.0,
3761396.4,   751.8,   751.8,   0.0);

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                  (METERS)

     (494966.0, 3761416.4,   738.9,   738.9,   0.0);   (494986.0,
3761416.4,   739.3,   739.3,   0.0);
     (495006.0, 3761416.4,   739.7,   739.7,   0.0);   (495026.0,
3761416.4,   740.0,   740.0,   0.0);
     (495046.0, 3761416.4,   740.4,   740.4,   0.0);   (495066.0,
3761416.4,   740.9,   740.9,   0.0);
     (495086.0, 3761416.4,   740.9,   740.9,   0.0);   (495106.0,
3761416.4,   739.9,   739.9,   0.0);
     (495126.0, 3761416.4,   739.5,   739.5,   0.0);   (495146.0,
3761416.4,   739.6,   739.6,   0.0);
     (495166.0, 3761416.4,   739.6,   739.6,   0.0);   (495186.0,
3761416.4,   739.6,   739.6,   0.0);
     (495206.0, 3761416.4,   739.9,   739.9,   0.0);   (495226.0,

```
3761416.4,     741.1,     743.5,       0.0);
     ( 495246.0, 3761416.4,     742.9,     742.9,       0.0);         ( 495266.0,
3761416.4,     743.7,     743.7,       0.0);
     ( 495286.0, 3761416.4,     744.5,     744.5,       0.0);         ( 495306.0,
3761416.4,     745.3,     745.3,       0.0);
     ( 495326.0, 3761416.4,     746.4,     746.4,       0.0);         ( 495346.0,
3761416.4,     747.9,     747.9,       0.0);
     ( 495366.0, 3761416.4,     748.5,     748.5,       0.0);         ( 495386.0,
3761416.4,     749.0,     749.0,       0.0);
     ( 495406.0, 3761416.4,     749.6,     749.6,       0.0);         ( 495426.0,
3761416.4,     750.3,     750.3,       0.0);
     ( 495446.0, 3761416.4,     751.1,     751.1,       0.0);         ( 495466.0,
3761416.4,     751.7,     751.7,       0.0);
     ( 495486.0, 3761416.4,     752.1,     752.1,       0.0);         ( 495506.0,
3761416.4,     752.3,     752.3,       0.0);
     ( 495526.0, 3761416.4,     752.0,     752.0,       0.0);         ( 494966.0,
3761436.4,     739.2,     739.2,       0.0);
     ( 494986.0, 3761436.4,     739.7,     739.7,       0.0);         ( 495006.0,
3761436.4,     740.0,     740.0,       0.0);
     ( 495026.0, 3761436.4,     740.2,     740.2,       0.0);         ( 495046.0,
3761436.4,     740.7,     740.7,       0.0);
     ( 495066.0, 3761436.4,     741.2,     741.2,       0.0);         ( 495086.0,
3761436.4,     741.7,     741.7,       0.0);
     ( 495106.0, 3761436.4,     741.6,     741.6,       0.0);         ( 495126.0,
3761436.4,     741.3,     741.3,       0.0);
     ( 495146.0, 3761436.4,     740.9,     740.9,       0.0);         ( 495166.0,
3761436.4,     740.7,     740.7,       0.0);
     ( 495186.0, 3761436.4,     740.8,     740.8,       0.0);         ( 495206.0,
3761436.4,     741.1,     741.1,       0.0);
     ( 495226.0, 3761436.4,     742.3,     742.3,       0.0);         ( 495246.0,
3761436.4,     743.7,     743.7,       0.0);
     ( 495266.0, 3761436.4,     744.1,     744.1,       0.0);         ( 495286.0,
3761436.4,     744.6,     744.6,       0.0);
     ( 495306.0, 3761436.4,     745.4,     745.4,       0.0);         ( 495326.0,
3761436.4,     746.8,     748.8,       0.0);
     ( 495346.0, 3761436.4,     748.9,     748.9,       0.0);         ( 495366.0,
3761436.4,     749.5,     749.5,       0.0);
     ( 495386.0, 3761436.4,     749.8,     749.8,       0.0);         ( 495406.0,
3761436.4,     750.2,     750.2,       0.0);
     ( 495426.0, 3761436.4,     750.7,     750.7,       0.0);         ( 495446.0,
3761436.4,     751.2,     751.2,       0.0);
     ( 495466.0, 3761436.4,     751.7,     751.7,       0.0);         ( 495486.0,
3761436.4,     752.1,     752.1,       0.0);
     ( 495506.0, 3761436.4,     752.5,     752.5,       0.0);         ( 495526.0,
3761436.4,     752.8,     752.8,       0.0);
     ( 494846.0, 3761456.4,     736.9,     736.9,       0.0);         ( 494946.0,
3761456.4,     738.8,     738.8,       0.0);
     ( 494966.0, 3761456.4,     739.6,     739.6,       0.0);         ( 494986.0,
3761456.4,     740.0,     740.0,       0.0);
     ( 495006.0, 3761456.4,     740.2,     740.2,       0.0);         ( 495026.0,
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3761456.4,   740.5,   740.5,   0.0);
     (495046.0, 3761456.4,   741.0,   741.0,   0.0);   (495066.0,
3761456.4,   741.6,   741.6,   0.0);
     (495086.0, 3761456.4,   741.9,   741.9,   0.0);   (495106.0,
3761456.4,   742.2,   742.2,   0.0);
     (495126.0, 3761456.4,   742.3,   742.3,   0.0);   (495146.0,
3761456.4,   742.1,   742.1,   0.0);
     (495166.0, 3761456.4,   741.9,   741.9,   0.0);   (495186.0,
3761456.4,   741.9,   741.9,   0.0);
     (495206.0, 3761456.4,   742.2,   742.2,   0.0);   (495226.0,
3761456.4,   743.2,   743.2,   0.0);
     (495246.0, 3761456.4,   744.5,   744.5,   0.0);   (495266.0,
3761456.4,   744.7,   744.7,   0.0);
     (495286.0, 3761456.4,   745.1,   745.1,   0.0);   (495306.0,
3761456.4,   745.9,   745.9,   0.0);
     (495326.0, 3761456.4,   747.4,   749.7,   0.0);   (495346.0,
3761456.4,   749.5,   749.5,   0.0);
     (495366.0, 3761456.4,   749.9,   749.9,   0.0);   (495386.0,
3761456.4,   750.1,   750.1,   0.0);
     (495406.0, 3761456.4,   750.4,   750.4,   0.0);   (495426.0,
3761456.4,   751.0,   751.0,   0.0);
     (495446.0, 3761456.4,   751.8,   751.8,   0.0);   (495466.0,
3761456.4,   752.0,   752.0,   0.0);
     (495486.0, 3761456.4,   752.3,   752.3,   0.0);   (495506.0,
3761456.4,   752.7,   752.7,   0.0);
     (495526.0, 3761456.4,   753.2,   753.2,   0.0);   (494866.0,
3761476.4,   737.6,   737.6,   0.0);

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                *** DISCRETE CARTESIAN RECEPTORS ***
                                               (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                          (METERS)

     (494886.0, 3761476.4,   738.1,   738.1,   0.0);   (494906.0,
3761476.4,   738.5,   738.5,   0.0);
     (494926.0, 3761476.4,   738.9,   738.9,   0.0);   (494946.0,
3761476.4,   739.3,   739.3,   0.0);
     (494966.0, 3761476.4,   739.8,   739.8,   0.0);   (494986.0,
3761476.4,   740.3,   740.3,   0.0);
     (495006.0, 3761476.4,   740.4,   740.4,   0.0);   (495026.0,
3761476.4,   740.8,   740.8,   0.0);
     (495046.0, 3761476.4,   741.3,   741.3,   0.0);   (495066.0,
3761476.4,   741.9,   741.9,   0.0);
     (495086.0, 3761476.4,   742.3,   742.3,   0.0);   (495106.0,

```
3761476.4,     742.6,     742.6,       0.0);
     ( 495126.0, 3761476.4,     742.9,     742.9,       0.0);         ( 495146.0,
3761476.4,     742.9,     742.9,       0.0);
     ( 495166.0, 3761476.4,     742.8,     742.8,       0.0);         ( 495186.0,
3761476.4,     743.1,     743.1,       0.0);
     ( 495206.0, 3761476.4,     743.5,     743.5,       0.0);         ( 495226.0,
3761476.4,     744.3,     744.3,       0.0);
     ( 495246.0, 3761476.4,     745.2,     745.2,       0.0);         ( 495266.0,
3761476.4,     745.3,     745.3,       0.0);
     ( 495286.0, 3761476.4,     745.8,     745.8,       0.0);         ( 495306.0,
3761476.4,     746.5,     746.5,       0.0);
     ( 495326.0, 3761476.4,     747.9,     747.9,       0.0);         ( 495346.0,
3761476.4,     749.7,     749.7,       0.0);
     ( 495366.0, 3761476.4,     749.9,     749.9,       0.0);         ( 495386.0,
3761476.4,     750.1,     750.1,       0.0);
     ( 495406.0, 3761476.4,     750.5,     750.5,       0.0);         ( 495426.0,
3761476.4,     751.2,     751.2,       0.0);
     ( 495446.0, 3761476.4,     752.2,     752.2,       0.0);         ( 495466.0,
3761476.4,     752.3,     752.3,       0.0);
     ( 495486.0, 3761476.4,     752.5,     752.5,       0.0);         ( 495506.0,
3761476.4,     752.9,     752.9,       0.0);
     ( 495526.0, 3761476.4,     753.5,     753.5,       0.0);         ( 494866.0,
3761496.4,     737.8,     737.8,       0.0);
     ( 494886.0, 3761496.4,     738.3,     738.3,       0.0);         ( 494906.0,
3761496.4,     738.7,     738.7,       0.0);
     ( 494926.0, 3761496.4,     739.1,     739.1,       0.0);         ( 494946.0,
3761496.4,     739.5,     739.5,       0.0);
     ( 494966.0, 3761496.4,     740.0,     740.0,       0.0);         ( 494986.0,
3761496.4,     740.4,     740.4,       0.0);
     ( 495006.0, 3761496.4,     740.6,     740.6,       0.0);         ( 495026.0,
3761496.4,     741.0,     741.0,       0.0);
     ( 495046.0, 3761496.4,     741.6,     741.6,       0.0);         ( 495066.0,
3761496.4,     742.2,     742.2,       0.0);
     ( 495086.0, 3761496.4,     742.7,     742.7,       0.0);         ( 495106.0,
3761496.4,     742.9,     742.9,       0.0);
     ( 495126.0, 3761496.4,     743.2,     743.2,       0.0);         ( 495146.0,
3761496.4,     743.5,     743.5,       0.0);
     ( 495166.0, 3761496.4,     743.7,     743.7,       0.0);         ( 495186.0,
3761496.4,     744.2,     744.2,       0.0);
     ( 495206.0, 3761496.4,     744.7,     744.7,       0.0);         ( 495226.0,
3761496.4,     745.3,     745.3,       0.0);
     ( 495246.0, 3761496.4,     745.8,     745.8,       0.0);         ( 495266.0,
3761496.4,     746.0,     746.0,       0.0);
     ( 495286.0, 3761496.4,     746.5,     746.5,       0.0);         ( 495306.0,
3761496.4,     747.2,     747.2,       0.0);
     ( 495326.0, 3761496.4,     748.3,     748.3,       0.0);         ( 495346.0,
3761496.4,     749.6,     749.6,       0.0);
     ( 495366.0, 3761496.4,     749.7,     749.7,       0.0);         ( 495386.0,
3761496.4,     749.9,     749.9,       0.0);
     ( 495406.0, 3761496.4,     750.4,     750.4,       0.0);         ( 495426.0,
```

3761496.4,   751.3,   751.3,   0.0);
     (495446.0, 3761496.4,   752.6,   752.6,   0.0);   (495466.0,
3761496.4,   752.6,   752.6,   0.0);
     (495486.0, 3761496.4,   752.7,   752.7,   0.0);   (495506.0,
3761496.4,   753.1,   753.1,   0.0);
     (495526.0, 3761496.4,   753.7,   753.7,   0.0);   (494866.0,
3761516.4,   738.2,   738.2,   0.0);
     (494886.0, 3761516.4,   738.7,   738.7,   0.0);   (494906.0,
3761516.4,   738.9,   738.9,   0.0);
     (494926.0, 3761516.4,   739.3,   739.3,   0.0);   (494946.0,
3761516.4,   739.8,   739.8,   0.0);
     (494966.0, 3761516.4,   740.3,   740.3,   0.0);   (494986.0,
3761516.4,   740.8,   740.8,   0.0);
     (495006.0, 3761516.4,   740.8,   740.8,   0.0);   (495026.0,
3761516.4,   741.2,   741.2,   0.0);
     (495046.0, 3761516.4,   741.8,   741.8,   0.0);   (495066.0,
3761516.4,   742.5,   742.5,   0.0);
     (495086.0, 3761516.4,   743.0,   743.0,   0.0);   (495106.0,
3761516.4,   743.3,   743.3,   0.0);
     (495126.0, 3761516.4,   743.6,   743.6,   0.0);   (495146.0,
3761516.4,   743.9,   743.9,   0.0);
     (495166.0, 3761516.4,   744.1,   744.1,   0.0);   (495186.0,
3761516.4,   744.5,   744.5,   0.0);
     (495206.0, 3761516.4,   745.0,   745.0,   0.0);   (495226.0,
3761516.4,   745.5,   745.5,   0.0);
     (495246.0, 3761516.4,   746.0,   746.0,   0.0);   (495266.0,
3761516.4,   746.4,   746.4,   0.0);
     (495286.0, 3761516.4,   746.9,   746.9,   0.0);   (495306.0,
3761516.4,   747.6,   747.6,   0.0);

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                    (METERS)

     (495326.0, 3761516.4,   748.4,   748.4,   0.0);   (495346.0,
3761516.4,   749.3,   749.3,   0.0);
     (495366.0, 3761516.4,   749.6,   749.6,   0.0);   (495386.0,
3761516.4,   749.9,   749.9,   0.0);
     (495406.0, 3761516.4,   750.5,   750.5,   0.0);   (495426.0,
3761516.4,   751.4,   751.4,   0.0);
     (495446.0, 3761516.4,   752.8,   752.8,   0.0);   (495466.0,
3761516.4,   752.8,   752.8,   0.0);
     (495486.0, 3761516.4,   752.9,   752.9,   0.0);   (495506.0,

3761516.4,   753.2,   753.2,   0.0);
     (495526.0, 3761516.4,   753.9,   753.9,   0.0);   (494866.0,
3761536.4,   738.4,   738.4,   0.0);
     (494886.0, 3761536.4,   738.9,   738.9,   0.0);   (494906.0,
3761536.4,   739.1,   739.1,   0.0);
     (494926.0, 3761536.4,   739.5,   739.5,   0.0);   (494946.0,
3761536.4,   740.0,   740.0,   0.0);
     (494966.0, 3761536.4,   740.6,   740.6,   0.0);   (494986.0,
3761536.4,   741.0,   741.0,   0.0);
     (495006.0, 3761536.4,   741.0,   741.0,   0.0);   (495026.0,
3761536.4,   741.4,   741.4,   0.0);
     (495046.0, 3761536.4,   742.1,   742.1,   0.0);   (495066.0,
3761536.4,   742.8,   742.8,   0.0);
     (495086.0, 3761536.4,   743.2,   743.2,   0.0);   (495106.0,
3761536.4,   743.5,   743.5,   0.0);
     (495126.0, 3761536.4,   743.9,   743.9,   0.0);   (495146.0,
3761536.4,   744.3,   744.3,   0.0);
     (495166.0, 3761536.4,   744.6,   744.6,   0.0);   (495186.0,
3761536.4,   745.0,   745.0,   0.0);
     (495206.0, 3761536.4,   745.4,   745.4,   0.0);   (495226.0,
3761536.4,   745.8,   745.8,   0.0);
     (495246.0, 3761536.4,   746.3,   746.3,   0.0);   (495266.0,
3761536.4,   746.8,   746.8,   0.0);
     (495286.0, 3761536.4,   747.3,   747.3,   0.0);   (495306.0,
3761536.4,   747.9,   747.9,   0.0);
     (495326.0, 3761536.4,   748.5,   748.5,   0.0);   (495346.0,
3761536.4,   749.2,   749.2,   0.0);
     (495366.0, 3761536.4,   749.6,   749.6,   0.0);   (495386.0,
3761536.4,   750.0,   750.0,   0.0);
     (495406.0, 3761536.4,   750.6,   750.6,   0.0);   (495426.0,
3761536.4,   751.5,   751.5,   0.0);
     (495446.0, 3761536.4,   752.8,   752.8,   0.0);   (495466.0,
3761536.4,   752.9,   752.9,   0.0);
     (495486.0, 3761536.4,   753.1,   753.1,   0.0);   (495506.0,
3761536.4,   753.4,   753.4,   0.0);
     (495526.0, 3761536.4,   754.1,   754.1,   0.0);   (494866.0,
3761556.4,   738.5,   738.5,   0.0);
     (494886.0, 3761556.4,   739.0,   739.0,   0.0);   (494906.0,
3761556.4,   739.2,   739.2,   0.0);
     (494926.0, 3761556.4,   739.6,   739.6,   0.0);   (494946.0,
3761556.4,   740.2,   740.2,   0.0);
     (494966.0, 3761556.4,   740.7,   740.7,   0.0);   (494986.0,
3761556.4,   741.1,   741.1,   0.0);
     (495006.0, 3761556.4,   741.2,   741.2,   0.0);   (495026.0,
3761556.4,   741.7,   741.7,   0.0);
     (495046.0, 3761556.4,   742.4,   742.4,   0.0);   (495066.0,
3761556.4,   743.1,   743.1,   0.0);
     (495086.0, 3761556.4,   743.4,   743.4,   0.0);   (495106.0,
3761556.4,   743.8,   743.8,   0.0);
     (495126.0, 3761556.4,   744.3,   744.3,   0.0);   (495146.0,

3761556.4,   744.8,   744.8,   0.0);
     (495166.0, 3761556.4,   745.1,   745.1,   0.0);   (495186.0,
3761556.4,   745.5,   745.5,   0.0);
     (495206.0, 3761556.4,   745.9,   745.9,   0.0);   (495226.0,
3761556.4,   746.3,   746.3,   0.0);
     (495246.0, 3761556.4,   746.8,   746.8,   0.0);   (495266.0,
3761556.4,   747.2,   747.2,   0.0);
     (495286.0, 3761556.4,   747.6,   747.6,   0.0);   (495306.0,
3761556.4,   748.1,   748.1,   0.0);
     (495326.0, 3761556.4,   748.6,   748.6,   0.0);   (495346.0,
3761556.4,   749.1,   749.1,   0.0);
     (495366.0, 3761556.4,   749.7,   749.7,   0.0);   (495386.0,
3761556.4,   750.2,   750.2,   0.0);
     (495406.0, 3761556.4,   750.8,   750.8,   0.0);   (495426.0,
3761556.4,   751.5,   751.5,   0.0);
     (495446.0, 3761556.4,   752.5,   752.5,   0.0);   (495466.0,
3761556.4,   753.0,   753.0,   0.0);
     (495486.0, 3761556.4,   753.3,   753.3,   0.0);   (495506.0,
3761556.4,   753.7,   753.7,   0.0);
     (495526.0, 3761556.4,   754.3,   754.3,   0.0);   (494846.0,
3761576.4,   738.0,   738.0,   0.0);
     (494866.0, 3761576.4,   738.6,   738.6,   0.0);   (494886.0,
3761576.4,   739.1,   739.1,   0.0);
     (494906.0, 3761576.4,   739.3,   739.3,   0.0);   (494926.0,
3761576.4,   739.7,   739.7,   0.0);
     (494946.0, 3761576.4,   740.3,   740.3,   0.0);   (494966.0,
3761576.4,   740.8,   740.8,   0.0);
     (494986.0, 3761576.4,   741.2,   741.2,   0.0);   (495006.0,
3761576.4,   741.4,   741.4,   0.0);
     (495026.0, 3761576.4,   741.9,   741.9,   0.0);   (495046.0,
3761576.4,   742.6,   742.6,   0.0);

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                  (METERS)

     (495066.0, 3761576.4,   743.3,   743.3,   0.0);   (495086.0,
3761576.4,   743.5,   743.5,   0.0);
     (495106.0, 3761576.4,   743.9,   743.9,   0.0);   (495126.0,
3761576.4,   744.4,   744.4,   0.0);
     (495146.0, 3761576.4,   745.0,   745.0,   0.0);   (495166.0,
3761576.4,   745.5,   745.5,   0.0);
     (495186.0, 3761576.4,   746.0,   746.0,   0.0);   (495206.0,

3761576.4,   746.5,   746.5,   0.0);
     (495226.0, 3761576.4,   747.0,   747.0,   0.0);   (495246.0,
3761576.4,   747.5,   747.5,   0.0);
     (495266.0, 3761576.4,   748.0,   748.0,   0.0);   (495286.0,
3761576.4,   748.4,   748.4,   0.0);
     (495306.0, 3761576.4,   748.9,   748.9,   0.0);   (495326.0,
3761576.4,   749.3,   749.3,   0.0);
     (495346.0, 3761576.4,   749.7,   749.7,   0.0);   (495366.0,
3761576.4,   750.2,   750.2,   0.0);
     (495386.0, 3761576.4,   750.7,   750.7,   0.0);   (495406.0,
3761576.4,   751.1,   751.1,   0.0);
     (495426.0, 3761576.4,   751.6,   751.6,   0.0);   (495446.0,
3761576.4,   752.4,   752.4,   0.0);
     (495466.0, 3761576.4,   753.0,   753.0,   0.0);   (495486.0,
3761576.4,   753.4,   753.4,   0.0);
     (495506.0, 3761576.4,   753.9,   753.9,   0.0);   (495526.0,
3761576.4,   754.6,   754.6,   0.0);
     (494846.0, 3761596.4,   738.1,   738.1,   0.0);   (494866.0,
3761596.4,   738.7,   738.7,   0.0);
     (494886.0, 3761596.4,   739.2,   739.2,   0.0);   (494906.0,
3761596.4,   739.4,   739.4,   0.0);
     (494926.0, 3761596.4,   739.8,   739.8,   0.0);   (494946.0,
3761596.4,   740.4,   740.4,   0.0);
     (494966.0, 3761596.4,   740.9,   740.9,   0.0);   (494986.0,
3761596.4,   741.3,   741.3,   0.0);
     (495006.0, 3761596.4,   741.6,   741.6,   0.0);   (495026.0,
3761596.4,   742.2,   742.2,   0.0);
     (495046.0, 3761596.4,   742.8,   742.8,   0.0);   (495066.0,
3761596.4,   743.4,   743.4,   0.0);
     (495086.0, 3761596.4,   743.6,   743.6,   0.0);   (495106.0,
3761596.4,   744.0,   744.0,   0.0);
     (495126.0, 3761596.4,   744.5,   744.5,   0.0);   (495146.0,
3761596.4,   745.1,   745.1,   0.0);
     (495166.0, 3761596.4,   745.7,   745.7,   0.0);   (495186.0,
3761596.4,   746.3,   746.3,   0.0);
     (495206.0, 3761596.4,   746.8,   746.8,   0.0);   (495226.0,
3761596.4,   747.4,   747.4,   0.0);
     (495246.0, 3761596.4,   747.9,   747.9,   0.0);   (495266.0,
3761596.4,   748.5,   748.5,   0.0);
     (495286.0, 3761596.4,   748.9,   748.9,   0.0);   (495306.0,
3761596.4,   749.3,   749.3,   0.0);
     (495326.0, 3761596.4,   749.7,   749.7,   0.0);   (495346.0,
3761596.4,   750.1,   750.1,   0.0);
     (495366.0, 3761596.4,   750.6,   750.6,   0.0);   (495386.0,
3761596.4,   751.1,   751.1,   0.0);
     (495406.0, 3761596.4,   751.6,   751.6,   0.0);   (495426.0,
3761596.4,   752.0,   752.0,   0.0);
     (495446.0, 3761596.4,   752.5,   752.5,   0.0);   (495466.0,
3761596.4,   753.0,   753.0,   0.0);
     (495486.0, 3761596.4,   753.5,   753.5,   0.0);   (495506.0,

3761596.4,   754.2,   754.2,   0.0);
     (495526.0, 3761596.4,   754.9,   754.9,   0.0);   (494846.0,
3761616.4,   738.3,   738.3,   0.0);
     (494866.0, 3761616.4,   738.8,   738.8,   0.0);   (494886.0,
3761616.4,   739.3,   739.3,   0.0);
     (494906.0, 3761616.4,   739.5,   739.5,   0.0);   (494926.0,
3761616.4,   739.8,   739.8,   0.0);
     (494946.0, 3761616.4,   740.4,   740.4,   0.0);   (494966.0,
3761616.4,   741.0,   741.0,   0.0);
     (494986.0, 3761616.4,   741.4,   741.4,   0.0);   (495006.0,
3761616.4,   741.8,   741.8,   0.0);
     (495026.0, 3761616.4,   742.4,   742.4,   0.0);   (495046.0,
3761616.4,   743.0,   743.0,   0.0);
     (495066.0, 3761616.4,   743.5,   743.5,   0.0);   (495086.0,
3761616.4,   743.7,   743.7,   0.0);
     (495106.0, 3761616.4,   744.1,   744.1,   0.0);   (495126.0,
3761616.4,   744.6,   744.6,   0.0);
     (495146.0, 3761616.4,   745.2,   745.2,   0.0);   (495166.0,
3761616.4,   745.8,   745.8,   0.0);
     (495186.0, 3761616.4,   746.3,   746.3,   0.0);   (495206.0,
3761616.4,   746.9,   746.9,   0.0);
     (495226.0, 3761616.4,   747.4,   747.4,   0.0);   (495246.0,
3761616.4,   747.9,   747.9,   0.0);
     (495266.0, 3761616.4,   748.5,   748.5,   0.0);   (495286.0,
3761616.4,   749.0,   749.0,   0.0);
     (495306.0, 3761616.4,   749.5,   749.5,   0.0);   (495326.0,
3761616.4,   749.9,   749.9,   0.0);
     (495346.0, 3761616.4,   750.4,   750.4,   0.0);   (495366.0,
3761616.4,   750.9,   750.9,   0.0);
     (495386.0, 3761616.4,   751.5,   751.5,   0.0);   (495406.0,
3761616.4,   752.0,   752.0,   0.0);
     (495426.0, 3761616.4,   752.5,   752.5,   0.0);   (495446.0,
3761616.4,   752.8,   752.8,   0.0);

                                                *** DISCRETE CARTESIAN RECEPTORS ***
                                               (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                           (METERS)

     (495466.0, 3761616.4,   753.2,   753.2,   0.0);   (495486.0,
3761616.4,   753.8,   753.8,   0.0);
     (495506.0, 3761616.4,   754.4,   754.4,   0.0);   (495526.0,
3761616.4,   755.2,   755.2,   0.0);
     (494846.0, 3761636.4,   738.4,   738.4,   0.0);   (494866.0,

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3761636.4,     738.9,     738.9,       0.0);
     ( 494886.0, 3761636.4,     739.4,     739.4,       0.0);         ( 494906.0,
3761636.4,     739.6,     739.6,       0.0);
     ( 494926.0, 3761636.4,     740.0,     740.0,       0.0);         ( 494946.0,
3761636.4,     740.6,     740.6,       0.0);
     ( 494966.0, 3761636.4,     741.2,     741.2,       0.0);         ( 494986.0,
3761636.4,     741.5,     741.5,       0.0);
     ( 495006.0, 3761636.4,     741.9,     741.9,       0.0);         ( 495026.0,
3761636.4,     742.4,     742.4,       0.0);
     ( 495046.0, 3761636.4,     743.0,     743.0,       0.0);         ( 495066.0,
3761636.4,     743.5,     743.5,       0.0);
     ( 495086.0, 3761636.4,     743.8,     743.8,       0.0);         ( 495106.0,
3761636.4,     744.2,     744.2,       0.0);
     ( 495126.0, 3761636.4,     744.8,     744.8,       0.0);         ( 495146.0,
3761636.4,     745.4,     745.4,       0.0);
     ( 495166.0, 3761636.4,     746.0,     746.0,       0.0);         ( 495186.0,
3761636.4,     746.6,     746.6,       0.0);
     ( 495206.0, 3761636.4,     747.1,     747.1,       0.0);         ( 495226.0,
3761636.4,     747.6,     747.6,       0.0);
     ( 495246.0, 3761636.4,     748.1,     748.1,       0.0);         ( 495266.0,
3761636.4,     748.7,     748.7,       0.0);
     ( 495286.0, 3761636.4,     749.2,     749.2,       0.0);         ( 495306.0,
3761636.4,     749.6,     749.6,       0.0);
     ( 495326.0, 3761636.4,     750.1,     750.1,       0.0);         ( 495346.0,
3761636.4,     750.5,     750.5,       0.0);
     ( 495366.0, 3761636.4,     750.9,     750.9,       0.0);         ( 495386.0,
3761636.4,     751.5,     751.5,       0.0);
     ( 495406.0, 3761636.4,     752.1,     752.1,       0.0);         ( 495426.0,
3761636.4,     752.8,     752.8,       0.0);
     ( 495446.0, 3761636.4,     753.3,     753.3,       0.0);         ( 495466.0,
3761636.4,     753.6,     753.6,       0.0);
     ( 495486.0, 3761636.4,     754.1,     754.1,       0.0);         ( 495506.0,
3761636.4,     754.8,     754.8,       0.0);
     ( 495526.0, 3761636.4,     755.5,     755.5,       0.0);         ( 494846.0,
3761656.4,     738.5,     738.5,       0.0);
     ( 494866.0, 3761656.4,     739.0,     739.0,       0.0);         ( 494886.0,
3761656.4,     739.5,     739.5,       0.0);
     ( 494906.0, 3761656.4,     739.7,     739.7,       0.0);         ( 494926.0,
3761656.4,     740.2,     740.2,       0.0);
     ( 494946.0, 3761656.4,     740.8,     740.8,       0.0);         ( 494966.0,
3761656.4,     741.3,     741.3,       0.0);
     ( 494986.0, 3761656.4,     741.6,     741.6,       0.0);         ( 495006.0,
3761656.4,     742.1,     742.1,       0.0);
     ( 495026.0, 3761656.4,     742.5,     742.5,       0.0);         ( 495046.0,
3761656.4,     743.1,     743.1,       0.0);
     ( 495066.0, 3761656.4,     743.6,     743.6,       0.0);         ( 495086.0,
3761656.4,     743.9,     743.9,       0.0);
     ( 495106.0, 3761656.4,     744.3,     744.3,       0.0);         ( 495126.0,
3761656.4,     745.0,     745.0,       0.0);
     ( 495146.0, 3761656.4,     745.6,     745.6,       0.0);         ( 495166.0,
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3761656.4,   746.2,   746.2,   0.0);
     (495186.0, 3761656.4,   746.7,   746.7,   0.0);   (495206.0,
3761656.4,   747.2,   747.2,   0.0);
     (495226.0, 3761656.4,   747.7,   747.7,   0.0);   (495246.0,
3761656.4,   748.2,   748.2,   0.0);
     (495266.0, 3761656.4,   748.7,   748.7,   0.0);   (495286.0,
3761656.4,   749.3,   749.3,   0.0);
     (495306.0, 3761656.4,   749.8,   749.8,   0.0);   (495326.0,
3761656.4,   750.2,   750.2,   0.0);
     (495346.0, 3761656.4,   750.6,   750.6,   0.0);   (495366.0,
3761656.4,   751.0,   751.0,   0.0);
     (495386.0, 3761656.4,   751.5,   751.5,   0.0);   (495406.0,
3761656.4,   752.2,   752.2,   0.0);
     (495426.0, 3761656.4,   753.0,   753.0,   0.0);   (495446.0,
3761656.4,   753.8,   753.8,   0.0);
     (495466.0, 3761656.4,   754.1,   754.1,   0.0);   (495486.0,
3761656.4,   754.5,   754.5,   0.0);
     (495506.0, 3761656.4,   755.1,   755.1,   0.0);   (495526.0,
3761656.4,   755.8,   755.8,   0.0);
     (494846.0, 3761676.4,   738.6,   738.6,   0.0);   (494866.0,
3761676.4,   739.2,   739.2,   0.0);
     (494886.0, 3761676.4,   739.6,   739.6,   0.0);   (494906.0,
3761676.4,   739.9,   739.9,   0.0);
     (494926.0, 3761676.4,   740.4,   740.4,   0.0);   (494946.0,
3761676.4,   741.0,   741.0,   0.0);
     (494966.0, 3761676.4,   741.5,   741.5,   0.0);   (494986.0,
3761676.4,   741.8,   741.8,   0.0);
     (495006.0, 3761676.4,   742.2,   742.2,   0.0);   (495026.0,
3761676.4,   742.8,   742.8,   0.0);
     (495046.0, 3761676.4,   743.3,   743.3,   0.0);   (495066.0,
3761676.4,   743.8,   743.8,   0.0);
     (495086.0, 3761676.4,   744.0,   744.0,   0.0);   (495106.0,
3761676.4,   744.5,   744.5,   0.0);
     (495126.0, 3761676.4,   745.1,   745.1,   0.0);   (495146.0,
3761676.4,   745.7,   745.7,   0.0);

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                  (METERS)

     (495166.0, 3761676.4,   746.2,   746.2,   0.0);   (495186.0,
3761676.4,   746.8,   746.8,   0.0);
     (495206.0, 3761676.4,   747.2,   747.2,   0.0);   (495226.0,

3761676.4,   747.7,   747.7,   0.0);
     (495246.0, 3761676.4,   748.2,   748.2,   0.0);   (495266.0,
3761676.4,   748.7,   748.7,   0.0);
     (495286.0, 3761676.4,   749.2,   749.2,   0.0);   (495306.0,
3761676.4,   749.8,   749.8,   0.0);
     (495326.0, 3761676.4,   750.4,   750.4,   0.0);   (495346.0,
3761676.4,   750.9,   750.9,   0.0);
     (495366.0, 3761676.4,   751.3,   751.3,   0.0);   (495386.0,
3761676.4,   751.7,   751.7,   0.0);
     (495406.0, 3761676.4,   752.2,   752.2,   0.0);   (495426.0,
3761676.4,   753.0,   753.0,   0.0);
     (495446.0, 3761676.4,   754.1,   754.1,   0.0);   (495466.0,
3761676.4,   754.5,   754.5,   0.0);
     (495486.0, 3761676.4,   754.9,   754.9,   0.0);   (495506.0,
3761676.4,   755.4,   755.4,   0.0);
     (495526.0, 3761676.4,   756.0,   756.0,   0.0);   (494846.0,
3761696.4,   738.7,   738.7,   0.0);
     (494866.0, 3761696.4,   739.3,   739.3,   0.0);   (494886.0,
3761696.4,   739.7,   739.7,   0.0);
     (494906.0, 3761696.4,   740.0,   740.0,   0.0);   (494926.0,
3761696.4,   740.5,   740.5,   0.0);
     (494946.0, 3761696.4,   741.1,   741.1,   0.0);   (494966.0,
3761696.4,   741.6,   741.6,   0.0);
     (494986.0, 3761696.4,   742.0,   742.0,   0.0);   (495006.0,
3761696.4,   742.4,   742.4,   0.0);
     (495026.0, 3761696.4,   743.0,   743.0,   0.0);   (495046.0,
3761696.4,   743.5,   743.5,   0.0);
     (495066.0, 3761696.4,   744.0,   744.0,   0.0);   (495086.0,
3761696.4,   744.3,   744.3,   0.0);
     (495106.0, 3761696.4,   744.7,   744.7,   0.0);   (495126.0,
3761696.4,   745.2,   745.2,   0.0);
     (495146.0, 3761696.4,   745.8,   745.8,   0.0);   (495166.0,
3761696.4,   746.3,   746.3,   0.0);
     (495186.0, 3761696.4,   746.7,   746.7,   0.0);   (495206.0,
3761696.4,   747.2,   747.2,   0.0);
     (495226.0, 3761696.4,   747.8,   747.8,   0.0);   (495246.0,
3761696.4,   748.3,   748.3,   0.0);
     (495266.0, 3761696.4,   748.7,   748.7,   0.0);   (495286.0,
3761696.4,   749.2,   749.2,   0.0);
     (495306.0, 3761696.4,   749.8,   749.8,   0.0);   (495326.0,
3761696.4,   750.4,   750.4,   0.0);
     (495346.0, 3761696.4,   750.9,   750.9,   0.0);   (495366.0,
3761696.4,   751.4,   751.4,   0.0);
     (495386.0, 3761696.4,   751.9,   751.9,   0.0);   (495406.0,
3761696.4,   752.3,   752.3,   0.0);
     (495426.0, 3761696.4,   752.9,   752.9,   0.0);   (495446.0,
3761696.4,   753.9,   753.9,   0.0);
     (495466.0, 3761696.4,   754.8,   754.8,   0.0);   (495486.0,
3761696.4,   755.3,   755.3,   0.0);
     (495506.0, 3761696.4,   755.7,   755.7,   0.0);   (495526.0,

3761696.4,   756.2,   756.2,   0.0);
     (494846.0, 3761716.4,   738.8,   738.8,   0.0);   (494866.0,
3761716.4,   739.4,   739.4,   0.0);
     (494886.0, 3761716.4,   739.8,   739.8,   0.0);   (494906.0,
3761716.4,   740.0,   740.0,   0.0);
     (494926.0, 3761716.4,   740.6,   740.6,   0.0);   (494946.0,
3761716.4,   741.2,   741.2,   0.0);
     (494966.0, 3761716.4,   741.7,   741.7,   0.0);   (494986.0,
3761716.4,   742.1,   742.1,   0.0);
     (495006.0, 3761716.4,   742.6,   742.6,   0.0);   (495026.0,
3761716.4,   743.2,   743.2,   0.0);
     (495046.0, 3761716.4,   743.8,   743.8,   0.0);   (495066.0,
3761716.4,   744.2,   744.2,   0.0);
     (495086.0, 3761716.4,   744.5,   744.5,   0.0);   (495106.0,
3761716.4,   745.0,   745.0,   0.0);
     (495126.0, 3761716.4,   745.5,   745.5,   0.0);   (495146.0,
3761716.4,   745.9,   745.9,   0.0);
     (495166.0, 3761716.4,   746.4,   746.4,   0.0);   (495186.0,
3761716.4,   746.8,   746.8,   0.0);
     (495206.0, 3761716.4,   747.3,   747.3,   0.0);   (495226.0,
3761716.4,   747.9,   747.9,   0.0);
     (495246.0, 3761716.4,   748.5,   748.5,   0.0);   (495266.0,
3761716.4,   748.8,   748.8,   0.0);
     (495286.0, 3761716.4,   749.2,   749.2,   0.0);   (495306.0,
3761716.4,   749.8,   749.8,   0.0);
     (495326.0, 3761716.4,   750.3,   750.3,   0.0);   (495346.0,
3761716.4,   750.9,   750.9,   0.0);
     (495366.0, 3761716.4,   751.5,   751.5,   0.0);   (495386.0,
3761716.4,   752.0,   752.0,   0.0);
     (495406.0, 3761716.4,   752.5,   752.5,   0.0);   (495426.0,
3761716.4,   753.0,   753.0,   0.0);
     (495446.0, 3761716.4,   753.7,   753.7,   0.0);   (495466.0,
3761716.4,   754.9,   754.9,   0.0);
     (495486.0, 3761716.4,   755.5,   755.5,   0.0);   (495506.0,
3761716.4,   755.9,   755.9,   0.0);
     (495526.0, 3761716.4,   756.3,   756.3,   0.0);   (495546.0,
3761716.4,   756.7,   756.7,   0.0);

                                                *** DISCRETE CARTESIAN RECEPTORS ***
                                               (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                           (METERS)

     (494846.0, 3761736.4,   738.9,   738.9,   0.0);   (494866.0,

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3761736.4,     739.4,     739.4,       0.0);
     ( 494886.0, 3761736.4,     739.7,     739.7,       0.0);         ( 494906.0,
3761736.4,     740.0,     740.0,       0.0);
     ( 494926.0, 3761736.4,     740.6,     740.6,       0.0);         ( 494946.0,
3761736.4,     741.2,     741.2,       0.0);
     ( 494966.0, 3761736.4,     741.8,     741.8,       0.0);         ( 494986.0,
3761736.4,     742.1,     742.1,       0.0);
     ( 495006.0, 3761736.4,     742.6,     742.6,       0.0);         ( 495026.0,
3761736.4,     743.3,     743.3,       0.0);
     ( 495046.0, 3761736.4,     743.9,     743.9,       0.0);         ( 495066.0,
3761736.4,     744.3,     744.3,       0.0);
     ( 495086.0, 3761736.4,     744.6,     744.6,       0.0);         ( 495106.0,
3761736.4,     745.2,     745.2,       0.0);
     ( 495126.0, 3761736.4,     745.7,     745.7,       0.0);         ( 495146.0,
3761736.4,     746.2,     746.2,       0.0);
     ( 495166.0, 3761736.4,     746.6,     746.6,       0.0);         ( 495186.0,
3761736.4,     747.0,     747.0,       0.0);
     ( 495206.0, 3761736.4,     747.6,     747.6,       0.0);         ( 495226.0,
3761736.4,     748.3,     748.3,       0.0);
     ( 495246.0, 3761736.4,     748.9,     748.9,       0.0);         ( 495266.0,
3761736.4,     749.1,     749.1,       0.0);
     ( 495286.0, 3761736.4,     749.4,     749.4,       0.0);         ( 495306.0,
3761736.4,     749.8,     749.8,       0.0);
     ( 495326.0, 3761736.4,     750.3,     750.3,       0.0);         ( 495346.0,
3761736.4,     750.8,     750.8,       0.0);
     ( 495366.0, 3761736.4,     751.4,     751.4,       0.0);         ( 495386.0,
3761736.4,     752.1,     752.1,       0.0);
     ( 495406.0, 3761736.4,     752.6,     752.6,       0.0);         ( 495426.0,
3761736.4,     753.0,     753.0,       0.0);
     ( 495446.0, 3761736.4,     753.5,     753.5,       0.0);         ( 495466.0,
3761736.4,     754.7,     754.7,       0.0);
     ( 495486.0, 3761736.4,     755.4,     755.4,       0.0);         ( 495506.0,
3761736.4,     755.8,     755.8,       0.0);
     ( 495526.0, 3761736.4,     756.2,     756.2,       0.0);         ( 495546.0,
3761736.4,     756.7,     756.7,       0.0);
     ( 494846.0, 3761756.4,     738.9,     738.9,       0.0);         ( 494866.0,
3761756.4,     739.3,     739.3,       0.0);
     ( 494886.0, 3761756.4,     739.6,     739.6,       0.0);         ( 494906.0,
3761756.4,     740.0,     740.0,       0.0);
     ( 494926.0, 3761756.4,     740.5,     740.5,       0.0);         ( 494946.0,
3761756.4,     741.1,     741.1,       0.0);
     ( 494966.0, 3761756.4,     741.7,     741.7,       0.0);         ( 494986.0,
3761756.4,     742.1,     742.1,       0.0);
     ( 495006.0, 3761756.4,     742.6,     742.6,       0.0);         ( 495026.0,
3761756.4,     743.2,     743.2,       0.0);
     ( 495046.0, 3761756.4,     743.8,     743.8,       0.0);         ( 495066.0,
3761756.4,     744.2,     744.2,       0.0);
     ( 495086.0, 3761756.4,     744.6,     744.6,       0.0);         ( 495106.0,
3761756.4,     745.2,     745.2,       0.0);
     ( 495126.0, 3761756.4,     745.8,     745.8,       0.0);         ( 495146.0,
```

3761756.4,   746.3,   746.3,   0.0);
     (495166.0, 3761756.4,   746.8,   746.8,   0.0);   (495186.0,
3761756.4,   747.2,   747.2,   0.0);
     (495206.0, 3761756.4,   747.6,   747.6,   0.0);   (495226.0,
3761756.4,   748.3,   748.3,   0.0);
     (495246.0, 3761756.4,   748.9,   748.9,   0.0);   (495266.0,
3761756.4,   749.1,   749.1,   0.0);
     (495286.0, 3761756.4,   749.4,   749.4,   0.0);   (495306.0,
3761756.4,   749.9,   749.9,   0.0);
     (495326.0, 3761756.4,   750.4,   750.4,   0.0);   (495346.0,
3761756.4,   750.8,   750.8,   0.0);
     (495366.0, 3761756.4,   751.4,   751.4,   0.0);   (495386.0,
3761756.4,   752.1,   752.1,   0.0);
     (495406.0, 3761756.4,   752.6,   752.6,   0.0);   (495426.0,
3761756.4,   753.0,   753.0,   0.0);
     (495446.0, 3761756.4,   753.5,   753.5,   0.0);   (495466.0,
3761756.4,   754.3,   754.3,   0.0);
     (495486.0, 3761756.4,   754.9,   754.9,   0.0);   (495506.0,
3761756.4,   755.4,   755.4,   0.0);
     (495526.0, 3761756.4,   755.9,   755.9,   0.0);   (495546.0,
3761756.4,   756.4,   756.4,   0.0);
     (495566.0, 3761756.4,   756.9,   756.9,   0.0);   (494846.0,
3761776.4,   738.8,   738.8,   0.0);
     (494866.0, 3761776.4,   739.2,   739.2,   0.0);   (494886.0,
3761776.4,   739.6,   739.6,   0.0);
     (494906.0, 3761776.4,   740.0,   740.0,   0.0);   (494926.0,
3761776.4,   740.5,   740.5,   0.0);
     (494946.0, 3761776.4,   741.1,   741.1,   0.0);   (494966.0,
3761776.4,   741.6,   741.6,   0.0);
     (494986.0, 3761776.4,   742.1,   742.1,   0.0);   (495006.0,
3761776.4,   742.6,   742.6,   0.0);
     (495026.0, 3761776.4,   743.2,   743.2,   0.0);   (495046.0,
3761776.4,   743.7,   743.7,   0.0);
     (495066.0, 3761776.4,   744.2,   744.2,   0.0);   (495086.0,
3761776.4,   744.7,   744.7,   0.0);
     (495106.0, 3761776.4,   745.3,   745.3,   0.0);   (495126.0,
3761776.4,   745.9,   745.9,   0.0);
     (495146.0, 3761776.4,   746.5,   746.5,   0.0);   (495166.0,
3761776.4,   747.0,   747.0,   0.0);

                                    *** DISCRETE CARTESIAN RECEPTORS ***
                                  (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                           (METERS)

```
     ( 495186.0, 3761776.4,     747.3,     747.3,       0.0);         ( 495206.0,
3761776.4,     747.7,     747.7,       0.0);
     ( 495226.0, 3761776.4,     748.2,     748.2,       0.0);         ( 495246.0,
3761776.4,     748.7,     748.7,       0.0);
     ( 495266.0, 3761776.4,     749.0,     749.0,       0.0);         ( 495286.0,
3761776.4,     749.5,     749.5,       0.0);
     ( 495306.0, 3761776.4,     750.0,     750.0,       0.0);         ( 495326.0,
3761776.4,     750.4,     750.4,       0.0);
     ( 495346.0, 3761776.4,     750.9,     750.9,       0.0);         ( 495366.0,
3761776.4,     751.4,     751.4,       0.0);
     ( 495386.0, 3761776.4,     752.0,     752.0,       0.0);         ( 495406.0,
3761776.4,     752.5,     752.5,       0.0);
     ( 495426.0, 3761776.4,     752.9,     752.9,       0.0);         ( 495446.0,
3761776.4,     753.4,     753.4,       0.0);
     ( 495466.0, 3761776.4,     754.0,     754.0,       0.0);         ( 495486.0,
3761776.4,     754.5,     754.5,       0.0);
     ( 495506.0, 3761776.4,     755.0,     755.0,       0.0);         ( 495526.0,
3761776.4,     755.5,     755.5,       0.0);
     ( 495546.0, 3761776.4,     756.1,     756.1,       0.0);         ( 495566.0,
3761776.4,     756.8,     756.8,       0.0);
     ( 494846.0, 3761796.4,     739.2,     739.2,       0.0);         ( 494866.0,
3761796.4,     739.6,     739.6,       0.0);
     ( 494886.0, 3761796.4,     740.0,     740.0,       0.0);         ( 494906.0,
3761796.4,     740.4,     740.4,       0.0);
     ( 494926.0, 3761796.4,     740.8,     740.8,       0.0);         ( 494946.0,
3761796.4,     741.3,     741.3,       0.0);
     ( 494966.0, 3761796.4,     741.9,     741.9,       0.0);         ( 494986.0,
3761796.4,     742.4,     742.4,       0.0);
     ( 495006.0, 3761796.4,     742.9,     742.9,       0.0);         ( 495026.0,
3761796.4,     743.4,     743.4,       0.0);
     ( 495046.0, 3761796.4,     743.9,     743.9,       0.0);         ( 495066.0,
3761796.4,     744.4,     744.4,       0.0);
     ( 495086.0, 3761796.4,     745.0,     745.0,       0.0);         ( 495106.0,
3761796.4,     745.5,     745.5,       0.0);
     ( 495126.0, 3761796.4,     746.1,     746.1,       0.0);         ( 495146.0,
3761796.4,     746.7,     746.7,       0.0);
     ( 495166.0, 3761796.4,     747.2,     747.2,       0.0);         ( 495186.0,
3761796.4,     747.5,     747.5,       0.0);
     ( 495206.0, 3761796.4,     747.8,     747.8,       0.0);         ( 495226.0,
3761796.4,     748.2,     748.2,       0.0);
     ( 495246.0, 3761796.4,     748.7,     748.7,       0.0);         ( 495266.0,
3761796.4,     749.1,     749.1,       0.0);
     ( 495286.0, 3761796.4,     749.5,     749.5,       0.0);         ( 495306.0,
3761796.4,     750.0,     750.0,       0.0);
     ( 495326.0, 3761796.4,     750.5,     750.5,       0.0);         ( 495346.0,
3761796.4,     751.0,     751.0,       0.0);
     ( 495366.0, 3761796.4,     751.5,     751.5,       0.0);         ( 495386.0,
3761796.4,     752.0,     752.0,       0.0);
     ( 495406.0, 3761796.4,     752.4,     752.4,       0.0);         ( 495426.0,
```

3761796.4,   752.9,   752.9,   0.0);
     (495446.0, 3761796.4,   753.4,   753.4,   0.0);   (495466.0,
3761796.4,   753.9,   753.9,   0.0);
     (495486.0, 3761796.4,   754.4,   754.4,   0.0);   (495506.0,
3761796.4,   754.9,   754.9,   0.0);
     (495526.0, 3761796.4,   755.4,   755.4,   0.0);   (495546.0,
3761796.4,   756.0,   756.0,   0.0);
     (495566.0, 3761796.4,   756.7,   756.7,   0.0);   (494966.0,
3761816.4,   742.1,   742.1,   0.0);
     (494986.0, 3761816.4,   742.6,   742.6,   0.0);   (495006.0,
3761816.4,   743.1,   743.1,   0.0);
     (495026.0, 3761816.4,   743.6,   743.6,   0.0);   (495046.0,
3761816.4,   744.1,   744.1,   0.0);
     (495066.0, 3761816.4,   744.6,   744.6,   0.0);   (495086.0,
3761816.4,   745.1,   745.1,   0.0);
     (495106.0, 3761816.4,   745.7,   745.7,   0.0);   (495126.0,
3761816.4,   746.3,   746.3,   0.0);
     (495146.0, 3761816.4,   746.9,   746.9,   0.0);   (495166.0,
3761816.4,   747.4,   747.4,   0.0);
     (495186.0, 3761816.4,   747.7,   747.7,   0.0);   (495206.0,
3761816.4,   748.0,   748.0,   0.0);
     (495226.0, 3761816.4,   748.4,   748.4,   0.0);   (495246.0,
3761816.4,   748.9,   748.9,   0.0);
     (495266.0, 3761816.4,   749.3,   749.3,   0.0);   (495286.0,
3761816.4,   749.8,   749.8,   0.0);
     (495306.0, 3761816.4,   750.2,   750.2,   0.0);   (495326.0,
3761816.4,   750.7,   750.7,   0.0);
     (495346.0, 3761816.4,   751.2,   751.2,   0.0);   (495366.0,
3761816.4,   751.7,   751.7,   0.0);
     (495386.0, 3761816.4,   752.1,   752.1,   0.0);   (495406.0,
3761816.4,   752.6,   752.6,   0.0);
     (495426.0, 3761816.4,   753.0,   753.0,   0.0);   (495446.0,
3761816.4,   753.5,   753.5,   0.0);
     (495466.0, 3761816.4,   753.9,   753.9,   0.0);   (495486.0,
3761816.4,   754.4,   754.4,   0.0);
     (495506.0, 3761816.4,   755.0,   755.0,   0.0);   (495526.0,
3761816.4,   755.5,   755.5,   0.0);
     (495546.0, 3761816.4,   756.1,   756.1,   0.0);   (495566.0,
3761816.4,   756.8,   756.8,   0.0);
     (495126.0, 3761836.4,   746.5,   746.5,   0.0);   (495146.0,
3761836.4,   747.0,   747.0,   0.0);

                                                *** DISCRETE CARTESIAN RECEPTORS ***

(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(495166.0, 3761836.4, 747.5, 747.5, 0.0); (495186.0, 3761836.4, 747.8, 747.8, 0.0);
(495206.0, 3761836.4, 748.2, 748.2, 0.0); (495226.0, 3761836.4, 748.8, 748.8, 0.0);
(495366.0, 3761836.4, 752.0, 752.0, 0.0); (495386.0, 3761836.4, 752.4, 752.4, 0.0);
(495406.0, 3761836.4, 752.8, 752.8, 0.0); (495426.0, 3761836.4, 753.1, 753.1, 0.0);
(495446.0, 3761836.4, 753.6, 753.6, 0.0); (495466.0, 3761836.4, 754.0, 754.0, 0.0);
(495486.0, 3761836.4, 754.5, 754.5, 0.0); (495506.0, 3761836.4, 755.1, 755.1, 0.0);
(495526.0, 3761836.4, 755.7, 755.7, 0.0); (495546.0, 3761836.4, 756.3, 756.3, 0.0);
(495566.0, 3761836.4, 757.0, 757.0, 0.0); (495126.0, 3761856.4, 746.6, 746.6, 0.0);
(495146.0, 3761856.4, 747.2, 747.2, 0.0); (495166.0, 3761856.4, 747.6, 747.6, 0.0);
(495186.0, 3761856.4, 747.9, 747.9, 0.0); (495206.0, 3761856.4, 748.4, 748.4, 0.0);
(495226.0, 3761856.4, 749.0, 749.0, 0.0); (495386.0, 3761856.4, 752.5, 752.5, 0.0);
(495406.0, 3761856.4, 752.8, 752.8, 0.0); (495426.0, 3761856.4, 753.1, 753.1, 0.0);
(495446.0, 3761856.4, 753.5, 753.5, 0.0); (495466.0, 3761856.4, 754.0, 754.0, 0.0);
(495486.0, 3761856.4, 754.5, 754.5, 0.0); (495506.0, 3761856.4, 755.1, 755.1, 0.0);
(495526.0, 3761856.4, 755.7, 755.7, 0.0); (495546.0, 3761856.4, 756.5, 756.5, 0.0);
(495566.0, 3761856.4, 757.3, 757.3, 0.0); (495126.0, 3761876.4, 746.7, 746.7, 0.0);
(495146.0, 3761876.4, 747.3, 747.3, 0.0); (495166.0, 3761876.4, 747.8, 747.8, 0.0);
(495186.0, 3761876.4, 748.1, 748.1, 0.0); (495206.0, 3761876.4, 748.6, 748.6, 0.0);
(495226.0, 3761876.4, 749.1, 749.1, 0.0); (495386.0, 3761876.4, 752.5, 752.5, 0.0);
(495406.0, 3761876.4, 752.8, 752.8, 0.0); (495426.0, 3761876.4, 753.1, 753.1, 0.0);
(495446.0, 3761876.4, 753.5, 753.5, 0.0); (495466.0, 3761876.4, 754.0, 754.0, 0.0);
(495486.0, 3761876.4, 754.4, 754.4, 0.0); (495506.0, 3761876.4, 755.0, 755.0, 0.0);
(495526.0, 3761876.4, 755.6, 755.6, 0.0); (495546.0, 3761876.4, 756.4, 756.4, 0.0);
(495566.0, 3761876.4, 757.4, 757.4, 0.0); (495126.0,

3761896.4,   746.7,   746.7,   0.0);
     (495146.0, 3761896.4,   747.3,   747.3,   0.0);   (495166.0,
3761896.4,   747.9,   747.9,   0.0);
     (495186.0, 3761896.4,   748.2,   748.2,   0.0);   (495206.0,
3761896.4,   748.8,   748.8,   0.0);
     (495226.0, 3761896.4,   749.3,   749.3,   0.0);   (495386.0,
3761896.4,   752.6,   752.6,   0.0);
     (495406.0, 3761896.4,   752.8,   752.8,   0.0);   (495426.0,
3761896.4,   753.1,   753.1,   0.0);
     (495446.0, 3761896.4,   753.5,   753.5,   0.0);   (495466.0,
3761896.4,   753.9,   753.9,   0.0);
     (495486.0, 3761896.4,   754.3,   754.3,   0.0);   (495506.0,
3761896.4,   754.8,   754.8,   0.0);
     (495526.0, 3761896.4,   755.4,   755.4,   0.0);   (495546.0,
3761896.4,   756.3,   756.3,   0.0);
     (495566.0, 3761896.4,   757.3,   757.3,   0.0);   (495586.0,
3761896.4,   757.9,   757.9,   0.0);
     (495126.0, 3761916.4,   746.6,   746.6,   0.0);   (495146.0,
3761916.4,   747.2,   747.2,   0.0);
     (495166.0, 3761916.4,   747.8,   747.8,   0.0);   (495186.0,
3761916.4,   748.2,   748.2,   0.0);
     (495206.0, 3761916.4,   748.8,   748.8,   0.0);   (495226.0,
3761916.4,   749.3,   749.3,   0.0);
     (495386.0, 3761916.4,   752.8,   752.8,   0.0);   (495406.0,
3761916.4,   753.0,   753.0,   0.0);
     (495426.0, 3761916.4,   753.3,   753.3,   0.0);   (495446.0,
3761916.4,   753.7,   753.7,   0.0);
     (495466.0, 3761916.4,   754.1,   754.1,   0.0);   (495486.0,
3761916.4,   754.5,   754.5,   0.0);
     (495506.0, 3761916.4,   755.0,   755.0,   0.0);   (495526.0,
3761916.4,   755.7,   755.7,   0.0);
     (495546.0, 3761916.4,   756.5,   756.5,   0.0);   (495566.0,
3761916.4,   757.4,   757.4,   0.0);
     (495586.0, 3761916.4,   758.0,   758.0,   0.0);   (495126.0,
3761936.4,   746.6,   746.6,   0.0);
     (495146.0, 3761936.4,   747.1,   747.1,   0.0);   (495166.0,
3761936.4,   747.7,   747.7,   0.0);
     (495186.0, 3761936.4,   748.1,   748.1,   0.0);   (495206.0,
3761936.4,   748.7,   748.7,   0.0);
     (495226.0, 3761936.4,   749.2,   749.2,   0.0);   (495146.0,
3761956.4,   747.1,   747.1,   0.0);
     (495166.0, 3761956.4,   747.7,   747.7,   0.0);   (495186.0,
3761956.4,   748.0,   748.0,   0.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(495206.0, 3761956.4, 748.6, 748.6, 0.0); (495226.0, 3761956.4, 749.1, 749.1, 0.0);
(495146.0, 3761976.4, 747.1, 747.1, 0.0); (495166.0, 3761976.4, 747.6, 747.6, 0.0);
(495186.0, 3761976.4, 748.0, 748.0, 0.0); (495206.0, 3761976.4, 748.5, 748.5, 0.0);
(495226.0, 3761976.4, 749.0, 749.0, 0.0); (495146.0, 3761996.4, 747.1, 747.1, 0.0);
(495166.0, 3761996.4, 747.6, 747.6, 0.0); (495186.0, 3761996.4, 747.9, 747.9, 0.0);
(495206.0, 3761996.4, 748.5, 748.5, 0.0); (495226.0, 3761996.4, 749.0, 749.0, 0.0);
(495146.0, 3762016.4, 747.1, 747.1, 0.0); (495166.0, 3762016.4, 747.6, 747.6, 0.0);
(495186.0, 3762016.4, 748.0, 748.0, 0.0); (495206.0, 3762016.4, 748.5, 748.5, 0.0);
(495226.0, 3762016.4, 749.0, 749.0, 0.0); (495146.0, 3762036.4, 747.1, 747.1, 0.0);
(495166.0, 3762036.4, 747.6, 747.6, 0.0); (495186.0, 3762036.4, 748.0, 748.0, 0.0);
(495206.0, 3762036.4, 748.6, 748.6, 0.0); (495226.0, 3762036.4, 749.1, 749.1, 0.0);
(495146.0, 3762056.4, 747.1, 747.1, 0.0); (495166.0, 3762056.4, 747.5, 747.5, 0.0);
(495186.0, 3762056.4, 748.0, 748.0, 0.0); (495206.0, 3762056.4, 748.6, 748.6, 0.0);
(495226.0, 3762056.4, 749.1, 749.1, 0.0); (494031.1, 3761757.4, 724.4, 724.4, 0.0);
(494022.5, 3761743.3, 724.3, 724.3, 0.0); (494020.5, 3761734.1, 724.2, 724.2, 0.0);
(494013.4, 3761724.0, 724.8, 724.8, 0.0); (494002.7, 3761712.3, 725.2, 725.2, 0.0);
(493991.6, 3761703.2, 724.8, 724.8, 0.0); (493980.4, 3761692.6, 725.0, 725.0, 0.0);
(493969.8, 3761686.5, 725.1, 725.1, 0.0); (493957.6, 3761681.4, 725.4, 725.4, 0.0);
(493943.9, 3761673.8, 724.6, 724.6, 0.0); (493926.2, 3761672.8, 724.9, 724.9, 0.0);
(493913.5, 3761671.3, 724.9, 724.9, 0.0); (493899.8, 3761669.8, 725.2, 725.2, 0.0);
(493832.4, 3761639.4, 727.3, 727.3, 0.0); (493822.8, 3761647.5, 727.2, 727.2, 0.0);
(493811.1, 3761658.1, 726.7, 726.7, 0.0); (493809.6, 3761669.3, 726.4, 726.4, 0.0);
(493817.7, 3761682.4, 726.4, 726.4, 0.0); (493833.4,

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3761689.5,     726.4,     726.4,       0.0);
     ( 493853.7, 3761695.1,     726.2,     726.2,       0.0);         ( 493871.5,
3761693.1,     726.2,     726.2,       0.0);
     ( 493888.2, 3761693.1,     726.0,     726.0,       0.0);         ( 493905.9,
3761693.6,     725.7,     725.7,       0.0);
     ( 493920.6, 3761694.6,     725.5,     725.5,       0.0);         ( 493939.4,
3761698.1,     725.3,     725.3,       0.0);
     ( 493959.6, 3761706.8,     725.2,     725.2,       0.0);         ( 493975.3,
3761717.4,     725.2,     725.2,       0.0);
     ( 493983.5, 3761726.0,     725.1,     725.1,       0.0);         ( 493991.1,
3761738.2,     725.0,     725.0,       0.0);
     ( 494001.2, 3761754.4,     725.1,     725.1,       0.0);         ( 493984.5,
3761753.4,     724.9,     724.9,       0.0);
     ( 493980.4, 3761746.8,     724.9,     724.9,       0.0);         ( 493970.8,
3761734.6,     724.8,     724.8,       0.0);
     ( 493953.6, 3761728.1,     724.8,     724.8,       0.0);         ( 493937.3,
3761717.4,     724.9,     724.9,       0.0);
     ( 493921.1, 3761715.4,     725.0,     725.0,       0.0);         ( 493906.9,
3761711.3,     725.3,     725.3,       0.0);
     ( 493887.2, 3761711.3,     725.4,     725.4,       0.0);         ( 493870.4,
3761711.3,     725.4,     725.4,       0.0);
     ( 493857.8, 3761710.8,     725.5,     725.5,       0.0);         ( 493843.1,
3761709.8,     725.5,     725.5,       0.0);
     ( 493829.4, 3761709.8,     725.4,     725.4,       0.0);         ( 493806.6,
3761701.2,     725.4,     725.4,       0.0);
     ( 493799.5, 3761684.0,     725.7,     725.7,       0.0);         ( 493797.5,
3761663.2,     725.9,     725.9,       0.0);
     ( 493779.7, 3761668.2,     725.0,     725.0,       0.0);         ( 493775.1,
3761687.5,     724.1,     725.0,       0.0);
     ( 493782.8, 3761700.2,     724.1,     724.1,       0.0);         ( 493793.4,
3761716.9,     723.8,     723.8,       0.0);
     ( 493809.1, 3761730.6,     723.3,     723.3,       0.0);         ( 493821.3,
3761732.1,     723.4,     723.4,       0.0);
     ( 493843.6, 3761730.6,     723.9,     723.9,       0.0);         ( 493875.0,
3761733.6,     724.0,     724.0,       0.0);
     ( 493883.6, 3761733.1,     724.1,     724.1,       0.0);         ( 493904.9,
3761734.6,     724.2,     724.2,       0.0);
     ( 493928.7, 3761736.2,     724.3,     724.3,       0.0);         ( 493941.4,
3761745.8,     724.3,     724.3,       0.0);
     ( 493954.1, 3761758.5,     724.5,     724.5,       0.0);         ( 493931.8,
3761757.4,     724.1,     724.1,       0.0);
     ( 493915.5, 3761754.9,     723.9,     723.9,       0.0);         ( 493903.4,
3761754.4,     723.6,     723.6,       0.0);
     ( 493888.7, 3761754.4,     723.2,     723.2,       0.0);         ( 493873.0,
3761753.9,     722.8,     722.8,       0.0);
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                       ***        08:18:30
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(493851.7, 3761754.4, 721.9, 723.2, 0.0); (493835.5, 3761751.9, 721.7, 722.8, 0.0);
(493818.7, 3761751.4, 721.3, 722.8, 0.0); (493742.2, 3761651.0, 720.8, 724.8, 0.0);
(493742.2, 3761665.2, 720.1, 726.6, 0.0); (493742.2, 3761680.4, 719.3, 726.6, 0.0);
(493746.2, 3761695.1, 719.5, 726.0, 0.0); (493750.3, 3761708.8, 719.8, 726.0, 0.0);
(493754.9, 3761721.5, 720.5, 723.3, 0.0); (493757.9, 3761732.6, 720.8, 720.8, 0.0);
(493772.1, 3761750.4, 720.0, 721.3, 0.0); (493760.4, 3761749.3, 719.8, 719.8, 0.0);
(493749.3, 3761748.8, 719.5, 720.6, 0.0); (493730.5, 3761748.8, 718.6, 719.6, 0.0);
(493705.7, 3761747.3, 717.3, 717.3, 0.0); (493712.8, 3761770.6, 714.2, 723.3, 0.0);
(493739.7, 3761767.6, 716.2, 725.0, 0.0); (493757.4, 3761769.1, 716.9, 725.0, 0.0);
(493780.2, 3761771.1, 717.6, 725.0, 0.0); (493801.5, 3761770.1, 718.3, 725.3, 0.0);
(493830.9, 3761773.2, 718.8, 725.5, 0.0); (493850.7, 3761773.7, 720.0, 723.2, 0.0);
(493872.5, 3761773.7, 721.5, 721.5, 0.0); (493893.8, 3761776.7, 722.8, 722.8, 0.0);
(493908.5, 3761775.7, 723.6, 723.6, 0.0); (493926.2, 3761779.8, 724.1, 724.1, 0.0);
(493937.8, 3761778.7, 724.3, 724.3, 0.0); (493952.5, 3761780.3, 724.6, 724.6, 0.0);
(493967.8, 3761779.8, 724.8, 724.8, 0.0); (493975.3, 3761783.8, 725.0, 725.0, 0.0);
(493989.5, 3761780.3, 725.1, 725.1, 0.0); (494000.2, 3761781.8, 725.2, 725.2, 0.0);
(494014.9, 3761785.3, 725.4, 725.4, 0.0); (494027.0, 3761785.8, 725.4, 725.4, 0.0);
(494049.3, 3761786.3, 724.9, 724.9, 0.0); (494066.1, 3761786.3, 724.5, 724.5, 0.0);
(494171.3, 3761821.1, 727.2, 727.2, 0.0); (494176.5, 3761840.8, 727.6, 727.6, 0.0);
(494171.3, 3761886.2, 727.6, 727.6, 0.0); (494831.5, 3761814.8, 738.9, 738.9, 0.0);
(494846.3, 3761570.2, 738.0, 738.0, 0.0); (494859.8, 3761515.1, 738.0, 738.0, 0.0);
(494839.6, 3761451.9, 736.6, 736.6, 0.0); (494863.6,

3761459.2,   737.4,   737.4,   0.0);
     (494888.0, 3761461.3,   738.0,   738.0,   0.0);   (494935.8,
3761473.0,   739.0,   739.0,   0.0);
     (494961.9, 3761422.4,   738.9,   738.9,   0.0);   (494996.5,
3761368.1,   737.8,   739.2,   0.0);
     (494991.5, 3761326.9,   737.3,   737.3,   0.0);   (495039.8,
3761351.1,   739.2,   739.2,   0.0);
     (495133.9, 3761336.3,   732.8,   732.8,   0.0);   (495229.3,
3761325.6,   734.8,   745.7,   0.0);
     (495414.8, 3761335.0,   748.4,   748.4,   0.0);   (495539.8,
3761406.2,   750.8,   750.8,   0.0);
     (495545.2, 3761697.9,   756.6,   756.6,   0.0);   (495576.1,
3761783.9,   757.1,   757.1,   0.0);
     (495589.5, 3761934.4,   758.0,   758.0,   0.0);   (495387.9,
3761934.4,   752.9,   752.9,   0.0);
     (495359.7, 3761828.2,   751.7,   751.7,   0.0);   (495237.4,
3761820.2,   748.8,   748.8,   0.0);
     (495237.4, 3762072.8,   749.5,   749.5,   0.0);   (495127.2,
3762068.8,   746.6,   746.6,   0.0);
     (495124.5, 3761818.8,   746.3,   746.3,   0.0);

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** METEOROLOGICAL DAYS SELECTED FOR
PROCESSING ***
                                                              (1=YES; 0=NO)

           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1

               NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON

WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: ..\rdld_sfc_pfl\RDLD_V11_trimmed.sfc
Met Version: 22112
Profile file: ..\rdld_sfc_pfl\RDLD_V11_trimmed.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 3102 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN

Year: 2018 Year: 2018

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
18	01	01	1	01	-3.0	0.077	-9.000	-9.000	-999.	51.	13.2	0.07	3.55	1.00	1.00	106.	10.0	280.6	9.0
18	01	01	1	02	-3.2	0.079	-9.000	-9.000	-999.	53.	13.4	0.07	3.55	1.00	1.04	108.	10.0	280.4	9.0
18	01	01	1	03	-3.2	0.080	-9.000	-9.000	-999.	54.	13.4	0.07	3.55	1.00	1.05	101.	10.0	280.6	9.0
18	01	01	1	04	-3.8	0.085	-9.000	-9.000	-999.	59.	14.0	0.07	3.55	1.00	1.14	100.	10.0	281.3	9.0
18	01	01	1	05	-3.3	0.080	-9.000	-9.000	-999.	55.	13.5	0.07	3.55	1.00	1.06	103.	10.0	280.6	9.0
18	01	01	1	06	-4.2	0.089	-9.000	-9.000	-999.	63.	14.5	0.07	3.55						

```
1.00    1.21  103.   10.0  280.3    9.0
 18 01 01   1 07   -3.8  0.086 -9.000 -9.000 -999.   60.     14.1  0.07   3.55
1.00    1.15  102.   10.0  280.3    9.0
 18 01 01   1 08   -1.8  0.067 -9.000 -9.000 -999.   41.     14.3  0.07   3.55
0.54    0.91   99.   10.0  282.0    9.0
 18 01 01   1 09   45.8  0.078  0.526  0.019  109.   52.     -1.0  0.07   3.55
0.33    0.50  122.   10.0  286.0    9.0
 18 01 01   1 10  105.5  0.246  0.845  0.012  197.  293.    -12.2  0.41   3.55
0.26    1.33  189.    7.9  291.9    9.0
 18 01 01   1 11  145.4  0.136  1.094  0.011  311.  126.     -1.5  0.08   3.55
0.23    0.91  307.   10.0  293.6    9.0
 18 01 01   1 12  163.8  0.170  1.275  0.008  436.  169.     -2.6  0.06   3.55
0.22    1.41  290.   10.0  293.8    9.0
 18 01 01   1 13   47.9  0.103  0.874  0.008  480.   80.     -2.0  0.07   3.55
0.22    0.76  242.   10.0  295.5    9.0
 18 01 01   1 14   41.0  0.076  0.851  0.007  515.   51.     -1.0  0.08   3.55
0.24    0.47  308.   10.0  296.5    9.0
 18 01 01   1 15   96.2  0.117  1.179  0.007  585.   97.     -1.4  0.07   3.55
0.27    0.82  265.   10.0  297.2    9.0
 18 01 01   1 16   36.3  0.127  0.867  0.006  618.  108.     -4.8  0.08   3.55
0.36    1.05  323.   10.0  296.7    9.0
 18 01 01   1 17   -1.1  0.058 -9.000 -9.000 -999.   35.     15.5  0.07   3.55
0.65    0.52  105.   10.0  294.9    9.0
 18 01 01   1 18   -1.7  0.065 -9.000 -9.000 -999.   40.     14.1  0.07   3.55
1.00    0.67  110.   10.0  291.0    9.0
 18 01 01   1 19   -3.0  0.077 -9.000 -9.000 -999.   51.     13.3  0.07   3.55
1.00    1.00  100.   10.0  288.4    9.0
 18 01 01   1 20   -3.0  0.077 -9.000 -9.000 -999.   51.     13.3  0.07   3.55
1.00    1.00   99.   10.0  287.0    9.0
 18 01 01   1 21   -3.2  0.079 -9.000 -9.000 -999.   54.     13.5  0.07   3.55
1.00    1.05  108.   10.0  286.0    9.0
 18 01 01   1 22   -2.2  0.069 -9.000 -9.000 -999.   44.     13.3  0.07   3.55
1.00    0.81  111.   10.0  285.1    9.0
 18 01 01   1 23   -3.9  0.087 -9.000 -9.000 -999.   61.     14.3  0.07   3.55
1.00    1.17  102.   10.0  284.9    9.0
 18 01 01   1 24   -3.3  0.081 -9.000 -9.000 -999.   55.     13.6  0.07   3.55
1.00    1.07  108.   10.0  284.7    9.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 18 01 01 01    9.0 0 -999.  -99.00   280.6   99.0  -99.00  -99.00
 18 01 01 01   10.0 1  106.    1.00  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                       ***        08:18:30
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OUTBOUND ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
495005.95	3761336.41	8.39932	495145.95	3761336.41	5.31346
495165.95	3761336.41	5.11217	495185.95	3761336.41	4.89068
495205.95	3761336.41	4.67790	495225.95	3761336.41	4.47384
495245.95	3761336.41	4.28622	495265.95	3761336.41	4.15137
495285.95	3761336.41	4.08176	495305.95	3761336.41	3.86884
495325.95	3761336.41	3.66661	495345.95	3761336.41	3.51541
495365.95	3761336.41	3.33835	495385.95	3761336.41	3.19305
495405.95	3761336.41	3.07612	495005.95	3761356.41	8.36112
495025.95	3761356.41	7.82837	495045.95	3761356.41	7.36002
495065.95	3761356.41	6.93189	495085.95	3761356.41	6.39885
495105.95	3761356.41	5.96292	495125.95	3761356.41	5.64353
495145.95	3761356.41	5.37213	495165.95	3761356.41	5.13900
495185.95	3761356.41	4.93717	495205.95	3761356.41	4.73808

```
        495225.95    3761356.41        4.54389                    495245.95
3761356.41        4.36222
        495265.95    3761356.41        4.19257                    495285.95
3761356.41        4.02529
        495305.95    3761356.41        3.80716                    495325.95
3761356.41        3.62393
        495345.95    3761356.41        3.47884                    495365.95
3761356.41        3.31556
        495385.95    3761356.41        3.17118                    495405.95
3761356.41        3.04322
        495425.95    3761356.41        2.92476                    495445.95
3761356.41        2.80357
        495005.95    3761376.41        8.26458                    495025.95
3761376.41        7.73020
        495045.95    3761376.41        7.25589                    495065.95
3761376.41        6.83776
        495085.95    3761376.41        6.46558                    495105.95
3761376.41        6.06927
        495125.95    3761376.41        5.74015                    495145.95
3761376.41        5.45737
        495165.95    3761376.41        5.18881                    495185.95
3761376.41        4.94105
        495205.95    3761376.41        4.72394                    495225.95
3761376.41        4.52722
        495245.95    3761376.41        4.35209                    495265.95
3761376.41        4.16701
        495285.95    3761376.41        3.94184                    495305.95
3761376.41        3.73682
        495325.95    3761376.41        3.57176                    495345.95
3761376.41        3.42764
        495365.95    3761376.41        3.28027                    495385.95
3761376.41        3.13935
        495405.95    3761376.41        3.00689                    495425.95
3761376.41        2.87789
        495445.95    3761376.41        2.74348                    495465.95
3761376.41        2.62961
        495485.95    3761376.41        2.54311                    494985.95
3761396.41        8.70846
        495005.95    3761396.41        8.11617                    495025.95
3761396.41        7.59513
        495045.95    3761396.41        7.12256                    495065.95
3761396.41        6.70107
        495085.95    3761396.41        6.35177                    495105.95
3761396.41        6.01036
        495125.95    3761396.41        5.69064                    495145.95
3761396.41        5.41388
        495165.95    3761396.41        5.15201                    495185.95
3761396.41        4.90829
        495205.95    3761396.41        4.68900                    495225.95
3761396.41        4.47861
```

                              *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OUTBOUND ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF VARIOUS IN MICROGRAMS/M**3
                 **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         495325.95   3761396.41   3.50810   495345.95
3761396.41   3.35114
         495365.95   3761396.41   3.21002   495385.95
3761396.41   3.07616
         495405.95   3761396.41   2.94836   495425.95
3761396.41   2.82350
         495445.95   3761396.41   2.69666   495465.95
3761396.41   2.58996
         495485.95   3761396.41   2.50057   495505.95
3761396.41   2.43644
         494965.95   3761416.41   9.14507   494985.95
3761416.41   8.49743
         495005.95   3761416.41   7.92682   495025.95
3761416.41   7.42098
         495045.95   3761416.41   6.95638   495065.95
3761416.41   6.53776
         495085.95   3761416.41   6.18088   495105.95

3761416.41 5.88519
495125.95 3761416.41 5.58535 495145.95
3761416.41 5.30832
495165.95 3761416.41 5.05286 495185.95
3761416.41 4.81634
495205.95 3761416.41 4.59734 495225.95
3761416.41 4.37372
495245.95 3761416.41 4.14976 495265.95
3761416.41 3.95464
495285.95 3761416.41 3.77347 495305.95
3761416.41 3.60277
495325.95 3761416.41 3.43015 495345.95
3761416.41 3.25296
495365.95 3761416.41 3.11807 495385.95
3761416.41 2.99438
495405.95 3761416.41 2.87589 495425.95
3761416.41 2.76020
495445.95 3761416.41 2.64643 495465.95
3761416.41 2.54623
495485.95 3761416.41 2.45702 495505.95
3761416.41 2.38078
495525.95 3761416.41 2.31917 494965.95
3761436.41 8.88069
494985.95 3761436.41 8.24769 495005.95
3761436.41 7.70136
495025.95 3761436.41 7.20935 495045.95
3761436.41 6.76016
495065.95 3761436.41 6.35053 495085.95
3761436.41 5.98492
495105.95 3761436.41 5.67645 495125.95
3761436.41 5.40291
495145.95 3761436.41 5.15131 495165.95
3761436.41 4.91386
495185.95 3761436.41 4.68528 495205.95
3761436.41 4.46873
495225.95 3761436.41 4.24845 495245.95
3761436.41 4.02733
495265.95 3761436.41 3.85216 495285.95
3761436.41 3.68528
495305.95 3761436.41 3.51993 495325.95
3761436.41 3.33998
495345.95 3761436.41 3.14250 495365.95
3761436.41 3.01505
495385.95 3761436.41 2.90324 495405.95
3761436.41 2.79541
495425.95 3761436.41 2.69000 495445.95
3761436.41 2.58853
495465.95 3761436.41 2.49582 495485.95
3761436.41 2.40869
495505.95 3761436.41 2.32732 495525.95

3761436.41   2.25268
         494845.95   3761456.41   15.72508   494945.95
3761456.41   9.29294
         494965.95   3761456.41   8.57364   494985.95
3761456.41   7.96623
         495005.95   3761456.41   7.44161   495025.95
3761456.41   6.96688
         495045.95   3761456.41   6.53127   495065.95
3761456.41   6.14010
         495085.95   3761456.41   5.79264   495105.95
3761456.41   5.48204
         495125.95   3761456.41   5.20880   495145.95
3761456.41   4.96484

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OUTBOUND ***
                                 INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         495165.95   3761456.41   4.74356   495185.95
3761456.41   4.52882
         495205.95   3761456.41   4.32222   495225.95
3761456.41   4.10927
         495245.95   3761456.41   3.89416   495265.95
3761456.41   3.73360
         495285.95   3761456.41   3.57596   495305.95
3761456.41   3.41407

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         495325.95    3761456.41        3.23513                    495345.95
3761456.41        3.04077
         495365.95    3761456.41        2.92563                    495385.95
3761456.41        2.82309
         495405.95    3761456.41        2.72064                    495425.95
3761456.41        2.61614
         495445.95    3761456.41        2.51022                    495465.95
3761456.41        2.42807
         495485.95    3761456.41        2.34861                    495505.95
3761456.41        2.26939
         495525.95    3761456.41        2.19138                    494865.95
3761476.41       13.31942
         494885.95    3761476.41       11.79843                    494905.95
3761476.41       10.64154
         494925.95    3761476.41        9.70569                    494945.95
3761476.41        8.91434
         494965.95    3761476.41        8.24293                    494985.95
3761476.41        7.65892
         495005.95    3761476.41        7.16214                    495025.95
3761476.41        6.70354
         495045.95    3761476.41        6.28820                    495065.95
3761476.41        5.91064
         495085.95    3761476.41        5.58163                    495105.95
3761476.41        5.28282
         495125.95    3761476.41        5.01440                    495145.95
3761476.41        4.77744
         495165.95    3761476.41        4.56548                    495185.95
3761476.41        4.35537
         495205.95    3761476.41        4.15369                    495225.95
3761476.41        3.94942
         495245.95    3761476.41        3.75384                    495265.95
3761476.41        3.60218
         495285.95    3761476.41        3.45103                    495305.95
3761476.41        3.29548
         495325.95    3761476.41        3.12669                    495345.95
3761476.41        2.94943
         495365.95    3761476.41        2.84521                    495385.95
3761476.41        2.74719
         495405.95    3761476.41        2.64686                    495425.95
3761476.41        2.54166
         495445.95    3761476.41        2.43071                    495465.95
3761476.41        2.35676
         495485.95    3761476.41        2.28365                    495505.95
3761476.41        2.20770
         495525.95    3761476.41        2.12992                    494865.95
3761496.41       12.86381
         494885.95    3761496.41       11.32918                    494905.95
3761496.41       10.19765
         494925.95    3761496.41        9.28773                    494945.95
3761496.41        8.53048
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         494965.95    3761496.41        7.89909                      494985.95
3761496.41        7.33968
         495005.95    3761496.41        6.86887                      495025.95
3761496.41        6.42935
         495045.95    3761496.41        6.03110                      495065.95
3761496.41        5.67231
         495085.95    3761496.41        5.35723                      495105.95
3761496.41        5.07792
         495125.95    3761496.41        4.81954                      495145.95
3761496.41        4.58468
         495165.95    3761496.41        4.37358                      495185.95
3761496.41        4.15975
         495205.95    3761496.41        3.96280                      495225.95
3761496.41        3.77866
         495245.95    3761496.41        3.60963                      495265.95
3761496.41        3.46245
         495285.95    3761496.41        3.31498                      495305.95
3761496.41        3.16816
         495325.95    3761496.41        3.01618                      495345.95
3761496.41        2.86486
         495365.95    3761496.41        2.76885                      495385.95
3761496.41        2.67262
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                      ***        08:18:30

                                   PAGE  61
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OUTBOUND ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF VARIOUS  IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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- -
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3761496.41 2.46589
495445.95 3761496.41 2.34974 495465.95
3761496.41 2.28214
495485.95 3761496.41 2.21492 495505.95
3761496.41 2.14328
495525.95 3761496.41 2.06758 494865.95
3761516.41 12.32020
494885.95 3761516.41 10.79745 494905.95
3761516.41 9.72580
494925.95 3761516.41 8.85229 494945.95
3761516.41 8.13460
494965.95 3761516.41 7.52356 494985.95
3761516.41 6.99420
495005.95 3761516.41 6.56292 495025.95
3761516.41 6.15096
495045.95 3761516.41 5.77005 495065.95
3761516.41 5.42964
495085.95 3761516.41 5.12786 495105.95
3761516.41 4.86412
495125.95 3761516.41 4.62031 495145.95
3761516.41 4.39641
495165.95 3761516.41 4.19334 495185.95
3761516.41 3.99588
495205.95 3761516.41 3.81153 495225.95
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495245.95 3761516.41 3.47836 495265.95
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495285.95 3761516.41 3.18955 495305.95
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495325.95 3761516.41 2.91509 495345.95
3761516.41 2.78532
495365.95 3761516.41 2.68708 495385.95
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495405.95 3761516.41 2.49187 495425.95
3761516.41 2.38679
495445.95 3761516.41 2.27266 495465.95
3761516.41 2.20831
495485.95 3761516.41 2.14507 495505.95
3761516.41 2.07720
495525.95 3761516.41 2.00422 494865.95
3761536.41 11.73193
494885.95 3761536.41 10.26267 494905.95
3761536.41 9.24852
494925.95 3761536.41 8.41917 494945.95
3761536.41 7.74216
494965.95 3761536.41 7.15398 494985.95
3761536.41 6.65689
495005.95 3761536.41 6.25485 495025.95

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3761536.41        5.86804
         495045.95    3761536.41        5.50570                        495065.95
3761536.41        5.18458
         495085.95    3761536.41        4.89979                        495105.95
3761536.41        4.64944
         495125.95    3761536.41        4.41645                        495145.95
3761536.41        4.20178
         495165.95    3761536.41        4.00723                        495185.95
3761536.41        3.82411
         495205.95    3761536.41        3.65132                        495225.95
3761536.41        3.48930
         495245.95    3761536.41        3.33846                        495265.95
3761536.41        3.19859
         495285.95    3761536.41        3.06356                        495305.95
3761536.41        2.93463
         495325.95    3761536.41        2.81211                        495345.95
3761536.41        2.69746
         495365.95    3761536.41        2.59819                        495385.95
3761536.41        2.50315
         495405.95    3761536.41        2.40760                        495425.95
3761536.41        2.30839
         495445.95    3761536.41        2.20194                        495465.95
3761536.41        2.13548
         495485.95    3761536.41        2.07372                        495505.95
3761536.41        2.00848
         495525.95    3761536.41        1.93832                        494865.95
3761556.41       11.12046
         494885.95    3761556.41        9.72804                        494905.95
3761556.41        8.77568
         494925.95    3761556.41        7.99515                        494945.95
3761556.41        7.35273
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                      ***        08:18:30

                                   PAGE  62
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OUTBOUND ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
494965.95	3761556.41	6.79825	494985.95	3761556.41	6.33174
495005.95	3761556.41	5.94948	495025.95	3761556.41	5.58136
495045.95	3761556.41	5.24187	495065.95	3761556.41	4.93750
495085.95	3761556.41	4.67717	495105.95	3761556.41	4.43629
495125.95	3761556.41	4.21061	495145.95	3761556.41	4.00378
495165.95	3761556.41	3.81872	495185.95	3761556.41	3.64580
495205.95	3761556.41	3.48434	495225.95	3761556.41	3.33320
495245.95	3761556.41	3.19283	495265.95	3761556.41	3.06263
495285.95	3761556.41	2.93821	495305.95	3761556.41	2.82076
495325.95	3761556.41	2.70933	495345.95	3761556.41	2.60383
495365.95	3761556.41	2.50381	495385.95	3761556.41	2.41131
495405.95	3761556.41	2.32160	495425.95	3761556.41	2.23124
495445.95	3761556.41	2.13718	495465.95	3761556.41	2.06474
495485.95	3761556.41	2.00167	495505.95	3761556.41	1.93849
495525.95	3761556.41	1.87089	494845.95	3761576.41	12.63846
494865.95	3761576.41	10.51463	494885.95	3761576.41	9.21074
494905.95	3761576.41	8.31294	494925.95	3761576.41	7.58044
494945.95	3761576.41	6.97343	494965.95	3761576.41	6.45012
494985.95	3761576.41	6.01413	495005.95	3761576.41	5.64587
495025.95	3761576.41	5.29750	495045.95	3761576.41	4.98739

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         495065.95    3761576.41        4.70142                        495085.95
3761576.41        4.46463
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3761576.41        4.02140
         495145.95    3761576.41        3.82194                        495165.95
3761576.41        3.64018
         495185.95    3761576.41        3.47140                        495205.95
3761576.41        3.31428
         495225.95    3761576.41        3.16865                        495245.95
3761576.41        3.03292
         495265.95    3761576.41        2.90843                        495285.95
3761576.41        2.79189
         495305.95    3761576.41        2.68472                        495325.95
3761576.41        2.58402
         495345.95    3761576.41        2.48808                        495365.95
3761576.41        2.39510
         495385.95    3761576.41        2.30883                        495405.95
3761576.41        2.22800
         495425.95    3761576.41        2.14958                        495445.95
3761576.41        2.06744
         495465.95    3761576.41        1.99612                        495485.95
3761576.41        1.93230
         495505.95    3761576.41        1.86821                        495525.95
3761576.41        1.80208
         494845.95    3761596.41       11.88443                        494865.95
3761596.41        9.91993
         494885.95    3761596.41        8.70095                        494905.95
3761596.41        7.86188
         494925.95    3761596.41        7.17924                        494945.95
3761596.41        6.60718
         494965.95    3761596.41        6.11417                        494985.95
3761596.41        5.70759
         495005.95    3761596.41        5.35378                        495025.95
3761596.41        5.02573
         495045.95    3761596.41        4.74139                        495065.95
3761596.41        4.47404
         495085.95    3761596.41        4.25705                        495105.95
3761596.41        4.04272
         495125.95    3761596.41        3.83863                        495145.95
3761596.41        3.64784
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                      ***        08:18:30

                                  PAGE  63
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OUTBOUND ***
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INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
495165.95	3761596.41	3.47284	495185.95	3761596.41	3.31080
495205.95	3761596.41	3.16091	495225.95	3761596.41	3.02145
495245.95	3761596.41	2.89188	495265.95	3761596.41	2.77218
495285.95	3761596.41	2.66232	495305.95	3761596.41	2.56216
495325.95	3761596.41	2.46836	495345.95	3761596.41	2.37922
495365.95	3761596.41	2.29259	495385.95	3761596.41	2.21012
495405.95	3761596.41	2.13422	495425.95	3761596.41	2.06333
495445.95	3761596.41	1.99299	495465.95	3761596.41	1.92479
495485.95	3761596.41	1.86151	495505.95	3761596.41	1.79858
495525.95	3761596.41	1.73444	494845.95	3761616.41	11.16739
494865.95	3761616.41	9.34377	494885.95	3761616.41	8.20873
494905.95	3761616.41	7.42938	494925.95	3761616.41	6.79767
494945.95	3761616.41	6.25840	494965.95	3761616.41	5.79437
494985.95	3761616.41	5.41367	495005.95	3761616.41	5.07657
495025.95	3761616.41	4.76838	495045.95	3761616.41	4.50678
495065.95	3761616.41	4.25755	495085.95		

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3761616.41        4.05513
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3761616.41        3.66346
         495145.95    3761616.41        3.48492                    495165.95
3761616.41        3.31942
         495185.95    3761616.41        3.16823                    495205.95
3761616.41        3.02725
         495225.95    3761616.41        2.89646                    495245.95
3761616.41        2.77393
         495265.95    3761616.41        2.65845                    495285.95
3761616.41        2.55334
         495305.95    3761616.41        2.45551                    495325.95
3761616.41        2.36468
         495345.95    3761616.41        2.27949                    495365.95
3761616.41        2.19802
         495385.95    3761616.41        2.11658                    495405.95
3761616.41        2.04067
         495425.95    3761616.41        1.97205                    495445.95
3761616.41        1.91344
         495465.95    3761616.41        1.85084                    495485.95
3761616.41        1.79052
         495505.95    3761616.41        1.72986                    495525.95
3761616.41        1.66846
         494845.95    3761636.41       10.49216                    494865.95
3761636.41        8.79522
         494885.95    3761636.41        7.73884                    494905.95
3761636.41        7.01072
         494925.95    3761636.41        6.42419                    494945.95
3761636.41        5.91164
         494965.95    3761636.41        5.48000                    494985.95
3761636.41        5.12905
         495005.95    3761636.41        4.81364                    495025.95
3761636.41        4.52806
         495045.95    3761636.41        4.28679                    495065.95
3761636.41        4.05287
         495085.95    3761636.41        3.85920                    495105.95
3761636.41        3.67026
         495125.95    3761636.41        3.48696                    495145.95
3761636.41        3.31522
         495165.95    3761636.41        3.16045                    495185.95
3761636.41        3.01803
         495205.95    3761636.41        2.88715                    495225.95
3761636.41        2.76564
         495245.95    3761636.41        2.65121                    495265.95
3761636.41        2.54412
         495285.95    3761636.41        2.44459                    495305.95
3761636.41        2.35272
         495325.95    3761636.41        2.26779                    495345.95
3761636.41        2.18807
1 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                             *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OUTBOUND ***
                                 INCLUDING SOURCE(S):   L0000001   , L0000002 , L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010 , L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018 , L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026 , L0000027   , L0000028   , . . .   ,

                                                 *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                              ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)   Y-COORD (M)   CONC
 - - -

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         495105.95    3761656.41        3.49370                    495125.95
3761656.41        3.31905
         495145.95    3761656.41        3.15589                    495165.95
3761656.41        3.01115
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3761656.41        2.75601
         495225.95    3761656.41        2.64274                    495245.95
3761656.41        2.53638
         495265.95    3761656.41        2.43673                    495285.95
3761656.41        2.34200
         495305.95    3761656.41        2.25456                    495325.95
3761656.41        2.17335
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3761656.41        1.74771
         495465.95    3761656.41        1.69736                    495485.95
3761656.41        1.64603
         495505.95    3761656.41        1.59233                    495525.95
3761656.41        1.53891
         494845.95    3761676.41        9.25028                    494865.95
3761676.41        7.78114
         494885.95    3761676.41        6.86801                    494905.95
3761676.41        6.23607
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3761676.41        5.26411
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3761676.41        4.59338
         495005.95    3761676.41        4.31781                    495025.95
3761676.41        4.07438
         495045.95    3761676.41        3.86025                    495065.95
3761676.41        3.65732
         495085.95    3761676.41        3.48977                    495105.95
3761676.41        3.32358
         495125.95    3761676.41        3.16188                    495145.95
3761676.41        3.01115
         495165.95    3761676.41        2.87554                    495185.95
3761676.41        2.75173
         495205.95    3761676.41        2.63743                    495225.95
3761676.41        2.53166
         495245.95    3761676.41        2.43265                    495265.95
3761676.41        2.33895
         495285.95    3761676.41        2.24734                    495305.95
3761676.41        2.16162
         495325.95    3761676.41        2.08129                    495345.95
3761676.41        2.00624
         495365.95    3761676.41        1.94217                    495385.95
3761676.41        1.87944
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                               *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OUTBOUND ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF VARIOUS IN MICROGRAMS/M**3
                 **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         494865.95   3761696.41   7.31287   494885.95
3761696.41   6.46505
         494905.95   3761696.41   5.87646   494925.95
3761696.41   5.38446
         494945.95   3761696.41   4.97072   494965.95
3761696.41   4.62621
         494985.95   3761696.41   4.34494   495005.95
3761696.41   4.08549
         495025.95   3761696.41   3.86843   495045.95
3761696.41   3.65497
         495065.95   3761696.41   3.46781   495085.95
3761696.41   3.31028
         495105.95   3761696.41   3.15399   495125.95

3761696.41 3.00732
495145.95 3761696.41 2.87141 495165.95
3761696.41 2.74714
495185.95 3761696.41 2.63316 495205.95
3761696.41 2.52405
495225.95 3761696.41 2.42081 495245.95
3761696.41 2.32595
495265.95 3761696.41 2.24195 495285.95
3761696.41 2.15815
495305.95 3761696.41 2.07624 495325.95
3761696.41 1.99909
495345.95 3761696.41 1.92805 495365.95
3761696.41 1.86225
495385.95 3761696.41 1.80187 495405.95
3761696.41 1.74364
495425.95 3761696.41 1.68393 495445.95
3761696.41 1.61711
495465.95 3761696.41 1.55687 495485.95
3761696.41 1.50893
495505.95 3761696.41 1.46603 495525.95
3761696.41 1.42356
494845.95 3761716.41 8.11272 494865.95
3761716.41 6.85673
494885.95 3761716.41 6.07649 494905.95
3761716.41 5.52914
494925.95 3761716.41 5.07548 494945.95
3761716.41 4.69375
494965.95 3761716.41 4.37318 494985.95
3761716.41 4.10964
495005.95 3761716.41 3.86730 495025.95
3761716.41 3.66114
495045.95 3761716.41 3.46169 495065.95
3761716.41 3.28957
495085.95 3761716.41 3.14078 495105.95
3761716.41 2.99322
495125.95 3761716.41 2.85856 495145.95
3761716.41 2.73521
495165.95 3761716.41 2.62081 495185.95
3761716.41 2.51732
495205.95 3761716.41 2.41273 495225.95
3761716.41 2.31151
495245.95 3761716.41 2.21984 495265.95
3761716.41 2.14605
495285.95 3761716.41 2.07096 495305.95
3761716.41 1.99420
495325.95 3761716.41 1.92149 495345.95
3761716.41 1.85522
495365.95 3761716.41 1.78831 495385.95
3761716.41 1.72847
495405.95 3761716.41 1.67410 495425.95

3761716.41   1.62126
         495445.95   3761716.41   1.56384   495465.95
3761716.41   1.49766
         495485.95   3761716.41   1.44938   495505.95
3761716.41   1.40984
         495525.95   3761716.41   1.37198   495545.95
3761716.41   1.33504
         494845.95   3761736.41   7.53838   494865.95
3761736.41   6.39975
         494885.95   3761736.41   5.69722   494905.95
3761736.41   5.19746
         494925.95   3761736.41   4.78238   494945.95
3761736.41   4.42924
         494965.95   3761736.41   4.13301   494985.95
3761736.41   3.89353
         495005.95   3761736.41   3.66477   495025.95
3761736.41   3.47034

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OUTBOUND ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                   L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                   L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                   L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                                 *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                      ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         495045.95   3761736.41   3.28492   495065.95
3761736.41   3.12494
         495085.95   3761736.41   2.98425   495105.95
3761736.41   2.84536

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         495125.95    3761736.41        2.71739                    495145.95
3761736.41        2.59958
         495165.95    3761736.41        2.49128                    495185.95
3761736.41        2.39674
         495205.95    3761736.41        2.29870                    495225.95
3761736.41        2.20098
         495245.95    3761736.41        2.11175                    495265.95
3761736.41        2.04756
         495285.95    3761736.41        1.98143                    495305.95
3761736.41        1.91269
         495325.95    3761736.41        1.84637                    495345.95
3761736.41        1.78664
         495365.95    3761736.41        1.72302                    495385.95
3761736.41        1.66164
         495405.95    3761736.41        1.60818                    495425.95
3761736.41        1.56045
         495445.95    3761736.41        1.51227                    495465.95
3761736.41        1.45006
         495485.95    3761736.41        1.40164                    495505.95
3761736.41        1.36182
         495525.95    3761736.41        1.32559                    495545.95
3761736.41        1.28908
         494845.95    3761756.41        6.90818                    494865.95
3761756.41        5.92513
         494885.95    3761756.41        5.31321                    494905.95
3761756.41        4.86849
         494925.95    3761756.41        4.49957                    494945.95
3761756.41        4.18492
         494965.95    3761756.41        3.91655                    494985.95
3761756.41        3.69295
         495005.95    3761756.41        3.48081                    495025.95
3761756.41        3.30114
         495045.95    3761756.41        3.13017                    495065.95
3761756.41        2.97996
         495085.95    3761756.41        2.84522                    495105.95
3761756.41        2.71238
         495125.95    3761756.41        2.58926                    495145.95
3761756.41        2.47636
         495165.95    3761756.41        2.37302                    495185.95
3761756.41        2.28574
         495205.95    3761756.41        2.19816                    495225.95
3761756.41        2.10930
         495245.95    3761756.41        2.02613                    495265.95
3761756.41        1.96400
         495285.95    3761756.41        1.90032                    495305.95
3761756.41        1.83512
         495325.95    3761756.41        1.77349                    495345.95
3761756.41        1.71740
         495365.95    3761756.41        1.65798                    495385.95
3761756.41        1.60054
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         495405.95    3761756.41        1.54980                      495425.95
3761756.41        1.50456
         495445.95    3761756.41        1.45956                      495465.95
3761756.41        1.40730
         495485.95    3761756.41        1.36302                      495505.95
3761756.41        1.32409
         495525.95    3761756.41        1.28799                      495545.95
3761756.41        1.25100
         495565.95    3761756.41        1.21687                      494845.95
3761776.41        6.14828
         494865.95    3761776.41        5.40859                      494885.95
3761776.41        4.91586
         494905.95    3761776.41        4.53635                      494925.95
3761776.41        4.22064
         494945.95    3761776.41        3.94715                      494965.95
3761776.41        3.70773
         494985.95    3761776.41        3.49997                      495005.95
3761776.41        3.30462
         495025.95    3761776.41        3.14024                      495045.95
3761776.41        2.98323
         495065.95    3761776.41        2.84118                      495085.95
3761776.41        2.71281
         495105.95    3761776.41        2.58690                      495125.95
3761776.41        2.46888
         495145.95    3761776.41        2.36054                      495165.95
3761776.41        2.26229
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                       ***        08:18:30

                                  PAGE  67
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OUTBOUND ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                               ** CONC OF VARIOUS  IN MICROGRAMS/M**3
                  **
```

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
495185.95	3761776.41	2.18174	495205.95	3761776.41	2.10440
495225.95	3761776.41	2.02591	495245.95	3761776.41	1.94944
495265.95	3761776.41	1.88706	495285.95	3761776.41	1.82408
495305.95	3761776.41	1.76213	495325.95	3761776.41	1.70387
495345.95	3761776.41	1.64995	495365.95	3761776.41	1.59546
495385.95	3761776.41	1.54263	495405.95	3761776.41	1.49526
495425.95	3761776.41	1.45177	495445.95	3761776.41	1.40823
495465.95	3761776.41	1.36620	495485.95	3761776.41	1.32610
495505.95	3761776.41	1.28847	495525.95	3761776.41	1.25246
495545.95	3761776.41	1.21564	495565.95	3761776.41	1.17835
494845.95	3761796.41	5.33989	494865.95	3761796.41	4.86370
494885.95	3761796.41	4.49555	494905.95	3761796.41	4.19428
494925.95	3761796.41	3.93090	494945.95	3761796.41	3.69663
494965.95	3761796.41	3.48646	494985.95	3761796.41	3.29644
495005.95	3761796.41	3.12551	495025.95	3761796.41	2.96985
495045.95	3761796.41	2.82634	495065.95	3761796.41	2.69413
495085.95	3761796.41	2.57258	495105.95	3761796.41	2.45728
495125.95	3761796.41	2.34827	495145.95	3761796.41	2.24801
495165.95	3761796.41	2.15748	495185.95	3761796.41	2.08232
495205.95	3761796.41	2.01254	495225.95	3761796.41	1.94234
495245.95	3761796.41	1.87276	495265.95	3761796.41	1.81134
495285.95	3761796.41	1.75223	495305.95	3761796.41	1.69461
495325.95	3761796.41	1.63877	495345.95		

3761796.41   1.58558
         495365.95   3761796.41   1.53543   495385.95
3761796.41   1.48753
         495405.95   3761796.41   1.44307   495425.95
3761796.41   1.40096
         495445.95   3761796.41   1.36029   495465.95
3761796.41   1.32122
         495485.95   3761796.41   1.28365   495505.95
3761796.41   1.24750
         495525.95   3761796.41   1.21269   495545.95
3761796.41   1.17851
         495565.95   3761796.41   1.14275   494965.95
3761816.41   3.28308
         494985.95   3761816.41   3.11025   495005.95
3761816.41   2.95526
         495025.95   3761816.41   2.81385   495045.95
3761816.41   2.68260
         495065.95   3761816.41   2.56049   495085.95
3761816.41   2.44667
         495105.95   3761816.41   2.33882   495125.95
3761816.41   2.23754
         495145.95   3761816.41   2.14467   495165.95
3761816.41   2.06121
         495185.95   3761816.41   1.99005   495205.95
3761816.41   1.92309
         495225.95   3761816.41   1.85604   495245.95
3761816.41   1.79063
         495265.95   3761816.41   1.73190   495285.95
3761816.41   1.67637
         495305.95   3761816.41   1.62314   495325.95
3761816.41   1.57143
         495345.95   3761816.41   1.52090   495365.95
3761816.41   1.47327
         495385.95   3761816.41   1.42940   495405.95
3761816.41   1.38841

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                             *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OUTBOUND ***
                                INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018

, L0000019   , L0000020   , L0000021   ,
                L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                              ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         495425.95   3761816.41   1.34931   495445.95
3761816.41   1.31147
         495465.95   3761816.41   1.27483   495485.95
3761816.41   1.23911
         495505.95   3761816.41   1.20427   495525.95
3761816.41   1.17030
         495545.95   3761816.41   1.13736   495565.95
3761816.41   1.10403
         495125.95   3761836.41   2.13527   495145.95
3761836.41   2.04870
         495165.95   3761836.41   1.97174   495185.95
3761836.41   1.90460
         495205.95   3761836.41   1.83812   495225.95
3761836.41   1.77205
         495365.95   3761836.41   1.41234   495385.95
3761836.41   1.37206
         495405.95   3761836.41   1.33467   495425.95
3761836.41   1.29918
         495445.95   3761836.41   1.26427   495465.95
3761836.41   1.22949
         495485.95   3761836.41   1.19532   495505.95
3761836.41   1.16177
         495525.95   3761836.41   1.12862   495545.95
3761836.41   1.09591
         495565.95   3761836.41   1.06478   495125.95
3761856.41   2.04151
         495145.95   3761856.41   1.95882   495165.95
3761856.41   1.88569
         495185.95   3761856.41   1.82520   495205.95
3761856.41   1.76057
         495225.95   3761856.41   1.69636   495385.95
3761856.41   1.32154
         495405.95   3761856.41   1.28862   495425.95
3761856.41   1.25562
         495445.95   3761856.41   1.22284   495465.95
3761856.41   1.18898

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         495485.95    3761856.41        1.15660                    495505.95
3761856.41        1.12455
         495525.95    3761856.41        1.09186                    495545.95
3761856.41        1.05828
         495565.95    3761856.41        1.02563                    495125.95
3761876.41        1.95615
         495145.95    3761876.41        1.87729                    495165.95
3761876.41        1.80668
         495185.95    3761876.41        1.74947                    495205.95
3761876.41        1.68732
         495225.95    3761876.41        1.62623                    495385.95
3761876.41        1.27489
         495405.95    3761876.41        1.24513                    495425.95
3761876.41        1.21396
         495445.95    3761876.41        1.18295                    495465.95
3761876.41        1.15105
         495485.95    3761876.41        1.12073                    495505.95
3761876.41        1.09046
         495525.95    3761876.41        1.05911                    495545.95
3761876.41        1.02574
         495565.95    3761876.41        0.99224                    495125.95
3761896.41        1.87808
         495145.95    3761896.41        1.80347                    495165.95
3761896.41        1.73460
         495185.95    3761896.41        1.67795                    495205.95
3761896.41        1.61807
         495225.95    3761896.41        1.56130                    495385.95
3761896.41        1.23111
         495405.95    3761896.41        1.20406                    495425.95
3761896.41        1.17436
         495445.95    3761896.41        1.14432                    495465.95
3761896.41        1.11513
         495485.95    3761896.41        1.08674                    495505.95
3761896.41        1.05852
         495525.95    3761896.41        1.02897                    495545.95
3761896.41        0.99628
         495565.95    3761896.41        0.96296                    495585.95
3761896.41        0.93697
         495125.95    3761916.41        1.80844                    495145.95
3761916.41        1.73880
         495165.95    3761916.41        1.67284                    495185.95
3761916.41        1.61863
         495205.95    3761916.41        1.55938                    495225.95
3761916.41        1.50596
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                      ***       08:18:30
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```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OUTBOUND ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                     *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF VARIOUS  IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         495385.95    3761916.41        1.18569                     495405.95
3761916.41        1.15921
         495425.95    3761916.41        1.13174                     495445.95
3761916.41        1.10366
         495465.95    3761916.41        1.07611                     495485.95
3761916.41        1.04930
         495505.95    3761916.41        1.02184                     495525.95
3761916.41        0.99272
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3761916.41        0.93167
         495585.95    3761916.41        0.90766                     495125.95
3761936.41        1.74223
         495145.95    3761936.41        1.67724                     495165.95
3761936.41        1.61478
         495185.95    3761936.41        1.56318                     495205.95
3761936.41        1.50620
         495225.95    3761936.41        1.45547                     495145.95
3761956.41        1.61775
         495165.95    3761956.41        1.55935                     495185.95
3761956.41        1.51163
         495205.95    3761956.41        1.45808                     495225.95
3761956.41        1.40944
         495145.95    3761976.41        1.56278                     495165.95
3761976.41        1.50705
         495185.95    3761976.41        1.46123                     495205.95
3761976.41        1.41031
         495225.95    3761976.41        1.36342                     495145.95
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3761996.41        1.50974
         495165.95    3761996.41        1.45726                    495185.95
3761996.41        1.41256
         495205.95    3761996.41        1.36417                    495225.95
3761996.41        1.31925
         495145.95    3762016.41        1.45849                    495165.95
3762016.41        1.40946
         495185.95    3762016.41        1.36548                    495205.95
3762016.41        1.31920
         495225.95    3762016.41        1.27590                    495145.95
3762036.41        1.40993
         495165.95    3762036.41        1.36349                    495185.95
3762036.41        1.31991
         495205.95    3762036.41        1.27534                    495225.95
3762036.41        1.23392
         495145.95    3762056.41        1.36453                    495165.95
3762056.41        1.32019
         495185.95    3762056.41        1.27729                    495205.95
3762056.41        1.23432
         495225.95    3762056.41        1.19464                    494031.10
3761757.45        3.73448
         494022.49    3761743.26        3.75506                    494020.46
3761734.14        3.79626
         494013.36    3761724.00        3.80215                    494002.72
3761712.34        3.78098
         493991.57    3761703.22        3.73306                    493980.42
3761692.58        3.69365
         493969.78    3761686.49        3.63187                    493957.61
3761681.43        3.55274
         493943.93    3761673.82        3.46952                    493926.19
3761672.81        3.33130
         493913.51    3761671.29        3.24025                    493899.83
3761669.77        3.14652
         493832.42    3761639.36        2.81003                    493822.79
3761647.47        2.72958
         493811.13    3761658.11        2.63047                    493809.61
3761669.26        2.59342
         493817.72    3761682.44        2.60427                    493833.43
3761689.53        2.67097
         493853.71    3761695.11        2.76884                    493871.45
3761693.08        2.88119
         493888.17    3761693.08        2.98671                    493905.91
3761693.59        3.10307
         493920.61    3761694.60        3.20247                    493939.36
3761698.15        3.32607
         493959.64    3761706.77        3.44383                    493975.35
3761717.41        3.51601
         493983.46    3761726.03        3.53501                    493991.06
3761738.19        3.52811
         494001.20    3761754.41        3.51471                    493984.47
```

                              *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OUTBOUND ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                     *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF VARIOUS IN MICROGRAMS/M**3
                 **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

```
         493843.57    3761730.59        2.60166                    493874.99
3761733.63        2.76214
         493883.61    3761733.12        2.81344                    493904.90
3761734.64        2.93524
         493928.72    3761736.17        3.08158                    493941.39
3761745.80        3.12394
         493954.06    3761758.47        3.15160                    493931.76
3761757.45        3.01068
         493915.54    3761754.92        2.92047                    493903.38
3761754.41        2.84976
         493888.68    3761754.41        2.76491                    493872.97
3761753.91        2.67956
         493851.68    3761754.41        2.56543                    493835.46
3761751.88        2.49270
         493818.73    3761751.37        2.41465                    493742.20
3761651.01        2.27936
         493742.20    3761665.21        2.25305                    493742.20
3761680.41        2.22397
         493746.25    3761695.11        2.21579                    493750.31
3761708.80        2.20823
         493754.87    3761721.47        2.20548                    493757.91
3761732.62        2.19646
         493772.10    3761750.36        2.21356                    493760.44
3761749.34        2.16894
         493749.29    3761748.84        2.12617                    493730.54
3761748.84        2.05447
         493705.70    3761747.32        1.96630                    493712.80
3761770.63        1.93703
         493739.66    3761767.59        2.04170                    493757.40
3761769.11        2.10501
         493780.21    3761771.14        2.18933                    493801.50
3761770.12        2.27984
         493830.90    3761773.17        2.39977                    493850.66
3761773.67        2.49444
         493872.46    3761773.67        2.60749                    493893.75
3761776.71        2.71224
         493908.45    3761775.70        2.79859                    493926.19
3761779.75        2.88493
         493937.84    3761778.74        2.95832                    493952.54
3761780.26        3.04208
         493967.75    3761779.75        3.14161                    493975.35
3761783.81        3.17127
         493989.54    3761780.26        3.28506                    494000.19
3761781.78        3.35096
         494014.88    3761785.33        3.43540                    494027.05
3761785.84        3.52158
         494049.35    3761786.34        3.68892                    494066.08
3761786.34        3.82142
         494171.35    3761821.06        4.41184                    494176.48
3761840.83        4.24196
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         494171.35    3761886.24        3.77340                       494831.53
3761814.80        5.04424
         494846.31    3761570.20       12.82957                       494859.75
3761515.10       12.97539
         494839.59    3761451.93       16.54929                       494863.63
3761459.20       13.85806
         494887.97    3761461.34       11.98774                       494935.78
3761472.98        9.37119
         494961.89    3761422.37        9.21231                       494996.53
3761368.08        8.55685
         494991.46    3761326.95        8.80022                       495039.84
3761351.14        7.51642
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                       ***        08:18:30

                                  PAGE  71
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OUTBOUND ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF VARIOUS  IN MICROGRAMS/M**3
                  **

      X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         495133.92    3761336.35        5.35817                       495229.34
3761325.60        4.42572
         495414.80    3761335.01        3.03777                       495539.79
3761406.24        2.32540
         495545.17    3761697.88        1.38311                       495576.08
3761783.89        1.14735
         495589.52    3761934.41        0.88039                       495387.93
3761934.41        1.14569
         495359.70    3761828.24        1.45102                       495237.40
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3761820.18   1.80184
         495237.40   3762072.84   1.14346   495127.20
3762068.81   1.37923
         495124.51   3761818.83   2.23215

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: INBOUND ***
                                 INCLUDING SOURCE(S):   L0000423   , L0000424
, L0000425   , L0000426   , L0000427   ,
                  L0000428   , L0000429   , L0000430   , L0000431   , L0000432
, L0000433   , L0000434   , L0000435   ,
                  L0000436   , L0000437   , L0000438   , L0000439   , L0000440
, L0000441   , L0000442   , L0000443   ,
                  L0000444   , L0000445   , L0000446   , L0000447   , L0000448
, L0000449   , L0000450   , . . .   ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         495005.95   3761336.41   9.13211   495145.95
3761336.41   5.56489
         495165.95   3761336.41   5.33605   495185.95
3761336.41   5.13835
         495205.95   3761336.41   4.91839   495225.95
3761336.41   4.69684
         495245.95   3761336.41   4.49054   495265.95
3761336.41   4.30048
         495285.95   3761336.41   4.18842   495305.95
3761336.41   3.95572
         495325.95   3761336.41   3.73948   495345.95
3761336.41   3.57999
         495365.95   3761336.41   3.39313   495385.95
3761336.41   3.24098
         495405.95   3761336.41   3.11928   495005.95
3761356.41   9.04160

495025.95 3761356.41 8.43895 495045.95
3761356.41 7.87662
495065.95 3761356.41 7.32951 495085.95
3761356.41 6.84804
495105.95 3761356.41 6.29353 495125.95
3761356.41 5.92494
495145.95 3761356.41 5.67478 495165.95
3761356.41 5.43399
495185.95 3761356.41 5.16456 495205.95
3761356.41 4.92830
495225.95 3761356.41 4.70014 495245.95
3761356.41 4.49122
495265.95 3761356.41 4.29879 495285.95
3761356.41 4.12356
495305.95 3761356.41 3.88877 495325.95
3761356.41 3.69434
495345.95 3761356.41 3.54178 495365.95
3761356.41 3.37010
495385.95 3761356.41 3.21913 495405.95
3761356.41 3.08590
495425.95 3761356.41 2.96293 495445.95
3761356.41 2.83730
495005.95 3761376.41 8.88222 495025.95
3761376.41 8.27788
495045.95 3761376.41 7.71732 495065.95
3761376.41 7.23254
495085.95 3761376.41 6.77181 495105.95
3761376.41 6.37522
495125.95 3761376.41 6.01423 495145.95
3761376.41 5.69162
495165.95 3761376.41 5.39392 495185.95
3761376.41 5.12203
495205.95 3761376.41 4.87845 495225.95
3761376.41 4.65070
495245.95 3761376.41 4.47578 495265.95
3761376.41 4.27504
495285.95 3761376.41 4.03119 495305.95
3761376.41 3.81295
495325.95 3761376.41 3.63892 495345.95
3761376.41 3.48779
495365.95 3761376.41 3.33352 495385.95
3761376.41 3.18649
495405.95 3761376.41 3.04875 495425.95
3761376.41 2.91493
495445.95 3761376.41 2.77578 495465.95
3761376.41 2.65838
495485.95 3761376.41 2.56950 494985.95
3761396.41 9.31783
495005.95 3761396.41 8.67993 495025.95
3761396.41 8.06977

                              *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: INBOUND ***
                                  INCLUDING SOURCE(S):   L0000423   , L0000424
, L0000425   , L0000426   , L0000427   ,
                  L0000428   , L0000429   , L0000430   , L0000431   , L0000432
, L0000433   , L0000434   , L0000435   ,
                  L0000436   , L0000437   , L0000438   , L0000439   , L0000440
, L0000441   , L0000442   , L0000443   ,
                  L0000444   , L0000445   , L0000446   , L0000447   , L0000448
, L0000449   , L0000450   , . . .   ,

                                     *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         495325.95   3761396.41   3.57115   495345.95
3761396.41   3.40684
         495365.95   3761396.41   3.25973   495385.95
3761396.41   3.12062
         495405.95   3761396.41   2.98813   495425.95
3761396.41   2.85898
         495445.95   3761396.41   2.72804   495465.95

3761396.41 2.61828
495485.95 3761396.41 2.52657 495505.95
3761396.41 2.46104
494965.95 3761416.41 9.76682 494985.95
3761416.41 9.04766
495005.95 3761416.41 8.39183 495025.95
3761416.41 7.81776
495045.95 3761416.41 7.29582 495065.95
3761416.41 6.82962
495085.95 3761416.41 6.43681 495105.95
3761416.41 6.11646
495125.95 3761416.41 5.79150 495145.95
3761416.41 5.49094
495165.95 3761416.41 5.21529 495185.95
3761416.41 4.96131
495205.95 3761416.41 4.72632 495225.95
3761416.41 4.48596
495245.95 3761416.41 4.24600 495265.95
3761416.41 4.03941
495285.95 3761416.41 3.84843 495305.95
3761416.41 3.66915
495325.95 3761416.41 3.48832 495345.95
3761416.41 3.30323
495365.95 3761416.41 3.16328 495385.95
3761416.41 3.03532
495405.95 3761416.41 2.91298 495425.95
3761416.41 2.79373
495445.95 3761416.41 2.67668 495465.95
3761416.41 2.57386
495485.95 3761416.41 2.48251 495505.95
3761416.41 2.40462
495525.95 3761416.41 2.34183 494965.95
3761436.41 9.38676
494985.95 3761436.41 8.67677 495005.95
3761436.41 8.07099
495025.95 3761436.41 7.52984 495045.95
3761436.41 7.03794
495065.95 3761436.41 6.59138 495085.95
3761436.41 6.19539
495105.95 3761436.41 5.86448 495125.95
3761436.41 5.57286
495145.95 3761436.41 5.30549 495165.95
3761436.41 5.05337
495185.95 3761436.41 4.81066 495205.95
3761436.41 4.58097
495225.95 3761436.41 4.34666 495245.95
3761436.41 4.11211
495265.95 3761436.41 3.92841 495285.95
3761436.41 3.75375
495305.95 3761436.41 3.58095 495325.95

```
3761436.41        3.39298
         495345.95    3761436.41        3.18728                        495365.95
3761436.41        3.05566
         495385.95    3761436.41        2.94055                        495405.95
3761436.41        2.82969
         495425.95    3761436.41        2.72146                        495445.95
3761436.41        2.61742
         495465.95    3761436.41        2.52255                        495485.95
3761436.41        2.43352
         495505.95    3761436.41        2.35048                        495525.95
3761436.41        2.27440
         494845.95    3761456.41       16.83924                        494945.95
3761456.41        9.70828
         494965.95    3761456.41        8.94621                        494985.95
3761456.41        8.28897
         495005.95    3761456.41        7.72652                        495025.95
3761456.41        7.21795
         495045.95    3761456.41        6.75181                        495065.95
3761456.41        6.33407
         495085.95    3761456.41        5.96517                        495105.95
3761456.41        5.63635
         495125.95    3761456.41        5.34851                        495145.95
3761456.41        5.09259
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                      ***        08:18:30

                                 PAGE  74
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: INBOUND  ***
                                 INCLUDING SOURCE(S):     L0000423    , L0000424
, L0000425    , L0000426    , L0000427    ,
                 L0000428    , L0000429    , L0000430    , L0000431    , L0000432
, L0000433    , L0000434    , L0000435    ,
                 L0000436    , L0000437    , L0000438    , L0000439    , L0000440
, L0000441    , L0000442    , L0000443    ,
                 L0000444    , L0000445    , L0000446    , L0000447    , L0000448
, L0000449    , L0000450    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF VARIOUS  IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
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         495445.95    3761476.41        2.45627                        495465.95
3761476.41        2.38107
         495485.95    3761476.41        2.30676                        495505.95
3761476.41        2.22953
         495525.95    3761476.41        2.15043                        494865.95
3761496.41       13.17154
         494885.95    3761496.41       11.60693                        494905.95
3761496.41       10.44862
         494925.95    3761496.41        9.51505                        494945.95
3761496.41        8.73994
         494965.95    3761496.41        8.09155                        494985.95
3761496.41        7.51659
         495005.95    3761496.41        7.03413                        495025.95
3761496.41        6.58062
         495045.95    3761496.41        6.16838                        495065.95
3761496.41        5.79689
         495085.95    3761496.41        5.47122                        495105.95
3761496.41        5.18336
         495125.95    3761496.41        4.91680                        495145.95
3761496.41        4.67457
         495165.95    3761496.41        4.45706                        495185.95
3761496.41        4.23579
         495205.95    3761496.41        4.03217                        495225.95
3761496.41        3.84192
         495245.95    3761496.41        3.66754                        495265.95
3761496.41        3.51613
         495285.95    3761496.41        3.36423                        495305.95
3761496.41        3.21294
         495325.95    3761496.41        3.05631                        495345.95
3761496.41        2.90054
         495365.95    3761496.41        2.80252                        495385.95
3761496.41        2.70422
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                      ***        08:18:30

                                 PAGE  75
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: INBOUND  ***
                                 INCLUDING SOURCE(S):     L0000423    , L0000424
, L0000425    , L0000426    , L0000427    ,
                  L0000428    , L0000429    , L0000430    , L0000431    , L0000432
, L0000433    , L0000434    , L0000435    ,
                  L0000436    , L0000437    , L0000438    , L0000439    , L0000440
, L0000441    , L0000442    , L0000443    ,
                  L0000444    , L0000445    , L0000446    , L0000447    , L0000448
, L0000449    , L0000450    ,  . . .      ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
495405.95	3761496.41	2.60209	495425.95	3761496.41	2.49290
495445.95	3761496.41	2.37422	495465.95	3761496.41	2.30561
495485.95	3761496.41	2.23740	495505.95	3761496.41	2.16465
495525.95	3761496.41	2.08773	494865.95	3761516.41	12.49545
494885.95	3761516.41	10.96998	494905.95	3761516.41	9.89376
494925.95	3761516.41	9.00772	494945.95	3761516.41	8.28411
494965.95	3761516.41	7.66588	494985.95	3761516.41	7.12918
495005.95	3761516.41	6.69378	495025.95	3761516.41	6.27372
495045.95	3761516.41	5.88333	495065.95	3761516.41	5.53362
495085.95	3761516.41	5.22429	495105.95	3761516.41	4.95462
495125.95	3761516.41	4.70491	495145.95	3761516.41	4.47537
495165.95	3761516.41	4.26718	495185.95	3761516.41	4.06418
495205.95	3761516.41	3.87462	495225.95	3761516.41	3.69718
495245.95	3761516.41	3.53211	495265.95	3761516.41	3.38196
495285.95	3761516.41	3.23548	495305.95	3761516.41	3.09290
495325.95	3761516.41	2.95352	495345.95	3761516.41	2.82036
495365.95	3761516.41	2.72001	495385.95	3761516.41	2.62163
495405.95	3761516.41	2.52059	495425.95	3761516.41	2.41321
495445.95	3761516.41	2.29666	495465.95	3761516.41	2.23138
495485.95	3761516.41	2.16723	495505.95		

3761516.41   2.09834
         495525.95   3761516.41   2.02422   494865.95
3761536.41   11.84226
         494885.95   3761536.41   10.37253   494905.95
3761536.41   9.36018
         494925.95   3761536.41   8.53660   494945.95
3761536.41   7.85990
         494965.95   3761536.41   7.26939   494985.95
3761536.41   6.76928
         495005.95   3761536.41   6.36594   495025.95
3761536.41   5.97398
         495045.95   3761536.41   5.60464   495065.95
3761536.41   5.27634
         495085.95   3761536.41   4.98606   495105.95
3761536.41   4.73102
         495125.95   3761536.41   4.49315   495145.95
3761536.41   4.27371
         495165.95   3761536.41   4.07479   495185.95
3761536.41   3.88730
         495205.95   3761536.41   3.71023   495225.95
3761536.41   3.54414
         495245.95   3761536.41   3.38948   495265.95
3761536.41   3.24610
         495285.95   3761536.41   3.10760   495305.95
3761536.41   2.97538
         495325.95   3761536.41   2.84981   495345.95
3761536.41   2.73237
         495365.95   3761536.41   2.63089   495385.95
3761536.41   2.53377
         495405.95   3761536.41   2.43613   495425.95
3761536.41   2.33477
         495445.95   3761536.41   2.22610   495465.95
3761536.41   2.15857
         495485.95   3761536.41   2.09587   495505.95
3761536.41   2.02962
         495525.95   3761536.41   1.95834   494865.95
3761556.41   11.20450
         494885.95   3761556.41   9.80175   494905.95
3761556.41   8.86861
         494925.95   3761556.41   8.09708   494945.95
3761556.41   7.45766

VALUES FOR SOURCE GROUP: INBOUND ***
                                  INCLUDING SOURCE(S):   L0000423   , L0000424
, L0000425   , L0000426   , L0000427   ,
                  L0000428   , L0000429   , L0000430   , L0000431   , L0000432
, L0000433   , L0000434   , L0000435   ,
                  L0000436   , L0000437   , L0000438   , L0000439   , L0000440
, L0000441   , L0000442   , L0000443   ,
                  L0000444   , L0000445   , L0000446   , L0000447   , L0000448
, L0000449   , L0000450   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                      ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

494865.95 3761576.41 10.59567 494885.95 3761576.41 9.28293
494905.95 3761576.41 8.40310 494925.95 3761576.41 7.68007
494945.95 3761576.41 7.07676 494965.95 3761576.41 6.55380
494985.95 3761576.41 6.11665 495005.95 3761576.41 5.74643
495025.95 3761576.41 5.39398 495045.95 3761576.41 5.07864
495065.95 3761576.41 4.78736 495085.95 3761576.41 4.54670
495105.95 3761576.41 4.31526 495125.95 3761576.41 4.09424
495145.95 3761576.41 3.89018 495165.95 3761576.41 3.70418
495185.95 3761576.41 3.53135 495205.95 3761576.41 3.37036
495225.95 3761576.41 3.22109 495245.95 3761576.41 3.08193
495265.95 3761576.41 2.95431 495285.95 3761576.41 2.83485
495305.95 3761576.41 2.72501 495325.95 3761576.41 2.62181
495345.95 3761576.41 2.52350 495365.95 3761576.41 2.42824
495385.95 3761576.41 2.33992 495405.95 3761576.41 2.25724
495425.95 3761576.41 2.17706 495445.95 3761576.41 2.09312
495465.95 3761576.41 2.02034 495485.95 3761576.41 1.95528
495505.95 3761576.41 1.88998 495525.95 3761576.41 1.82264
494845.95 3761596.41 11.93247 494865.95 3761596.41 10.00271
494885.95 3761596.41 8.78095 494905.95 3761596.41 7.95729
494925.95 3761596.41 7.28321 494945.95 3761596.41 6.71454
494965.95 3761596.41 6.22160 494985.95 3761596.41 5.81346
495005.95 3761596.41 5.45678 495025.95 3761596.41 5.12439
495045.95 3761596.41 4.83487 495065.95 3761596.41 4.56234
495085.95 3761596.41 4.34132 495105.95 3761596.41 4.12228
495125.95 3761596.41 3.91330 495145.95 3761596.41 3.71773

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: INBOUND ***
INCLUDING SOURCE(S): L0000423 , L0000424 , L0000425 , L0000426 , L0000427 ,
L0000428 , L0000429 , L0000430 , L0000431 , L0000432 , L0000433 , L0000434 , L0000435 ,
L0000436 , L0000437 , L0000438 , L0000439 , L0000440 , L0000441 , L0000442 , L0000443 ,
L0000444 , L0000445 , L0000446 , L0000447 , L0000448 , L0000449 , L0000450 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
495165.95	3761596.41	3.53827	495185.95	3761596.41	3.37201
495205.95	3761596.41	3.21813	495225.95	3761596.41	3.07491
495245.95	3761596.41	2.94183	495265.95	3761596.41	2.81889
495285.95	3761596.41	2.70607	495305.95	3761596.41	2.60323
495325.95	3761596.41	2.50692	495345.95	3761596.41	2.41543
495365.95	3761596.41	2.32653	495385.95	3761596.41	2.24195
495405.95	3761596.41	2.16417	495425.95	3761596.41	2.09156
495445.95	3761596.41	2.01957	495465.95	3761596.41	1.94982
495485.95	3761596.41	1.88517	495505.95	3761596.41	1.82092
495525.95	3761596.41	1.75548	494845.95	3761616.41	11.23243
494865.95	3761616.41	9.43385	494885.95		

3761616.41 8.29989
494905.95 3761616.41 7.53281 494925.95 3761616.41 6.90807
494945.95 3761616.41 6.37148 494965.95 3761616.41 5.90702
494985.95 3761616.41 5.52415 495005.95 3761616.41 5.18350
495025.95 3761616.41 4.87064 495045.95 3761616.41 4.60377
495065.95 3761616.41 4.34925 495085.95 3761616.41 4.14237
495105.95 3761616.41 3.93642 495125.95 3761616.41 3.74072
495145.95 3761616.41 3.55731 495165.95 3761616.41 3.38719
495185.95 3761616.41 3.23169 495205.95 3761616.41 3.08662
495225.95 3761616.41 2.95198 495245.95 3761616.41 2.82582
495265.95 3761616.41 2.70694 495285.95 3761616.41 2.59873
495305.95 3761616.41 2.49801 495325.95 3761616.41 2.40453
495345.95 3761616.41 2.31688 495365.95 3761616.41 2.23311
495385.95 3761616.41 2.14941 495405.95 3761616.41 2.07144
495425.95 3761616.41 2.00101 495445.95 3761616.41 1.94086
495465.95 3761616.41 1.87670 495485.95 3761616.41 1.81491
495505.95 3761616.41 1.75283 495525.95 3761616.41 1.69008
494845.95 3761636.41 10.57989 494865.95 3761636.41 8.89320
494885.95 3761636.41 7.84038 494905.95 3761636.41 7.12148
494925.95 3761636.41 6.54025 494945.95 3761636.41 6.02952
494965.95 3761636.41 5.59691 494985.95 3761636.41 5.24331
495005.95 3761636.41 4.92402 495025.95 3761636.41 4.63368
495045.95 3761636.41 4.38707 495065.95 3761636.41 4.14770
495085.95 3761636.41 3.94912 495105.95 3761636.41 3.75501
495125.95 3761636.41 3.56644 495145.95 3761636.41 3.38962
495165.95 3761636.41 3.23014 495185.95

3761636.41   3.08328
         495205.95   3761636.41   2.94824   495225.95
3761636.41   2.82284
         495245.95   3761636.41   2.70471   495265.95
3761636.41   2.59418
         495285.95   3761636.41   2.49145   495305.95
3761636.41   2.39663
         495325.95   3761636.41   2.30900   495345.95
3761636.41   2.22676

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: INBOUND ***
                                 INCLUDING SOURCE(S):   L0000423   , L0000424
, L0000425   , L0000426   , L0000427   ,
                  L0000428   , L0000429   , L0000430   , L0000431   , L0000432
, L0000433   , L0000434   , L0000435   ,
                  L0000436   , L0000437   , L0000438   , L0000439   , L0000440
, L0000441   , L0000442   , L0000443   ,
                  L0000444   , L0000445   , L0000446   , L0000447   , L0000448
, L0000449   , L0000450   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         495365.95   3761636.41   2.14840   495385.95
3761636.41   2.07088
         495405.95   3761636.41   1.99328   495425.95
3761636.41   1.91963
         495445.95   3761636.41   1.85614   495465.95
3761636.41   1.79974
         495485.95   3761636.41   1.74263   495505.95
3761636.41   1.68362
         495525.95   3761636.41   1.62435   494845.95
3761656.41   9.95585
         494865.95   3761656.41   8.36981   494885.95
3761656.41   7.40319

494905.95 3761656.41 6.72856 494925.95
3761656.41 6.17738
494945.95 3761656.41 5.70038 494965.95
3761656.41 5.29836
494985.95 3761656.41 4.97252 495005.95
3761656.41 4.67327
495025.95 3761656.41 4.40454 495045.95
3761656.41 4.17476
495065.95 3761656.41 3.95003 495085.95
3761656.41 3.76291
495105.95 3761656.41 3.58009 495125.95
3761656.41 3.40013
495145.95 3761656.41 3.23183 495165.95
3761656.41 3.08235
495185.95 3761656.41 2.94465 495205.95
3761656.41 2.81853
495225.95 3761656.41 2.70132 495245.95
3761656.41 2.59124
495265.95 3761656.41 2.48812 495285.95
3761656.41 2.39011
495305.95 3761656.41 2.29964 495325.95
3761656.41 2.21564
495345.95 3761656.41 2.13717 495365.95
3761656.41 2.06482
495385.95 3761656.41 1.99363 495405.95
3761656.41 1.91940
495425.95 3761656.41 1.84513 495445.95
3761656.41 1.77643
495465.95 3761656.41 1.72449 495485.95
3761656.41 1.67163
495505.95 3761656.41 1.61641 495525.95
3761656.41 1.56156
494845.95 3761676.41 9.35676 494865.95
3761676.41 7.88273
494885.95 3761676.41 6.97923 494905.95
3761676.41 6.35228
494925.95 3761676.41 5.82852 494945.95
3761676.41 5.38408
494965.95 3761676.41 5.01159 494985.95
3761676.41 4.70889
495005.95 3761676.41 4.42946 495025.95
3761676.41 4.18147
495045.95 3761676.41 3.96229 495065.95
3761676.41 3.75416
495085.95 3761676.41 3.58168 495105.95
3761676.41 3.41040
495125.95 3761676.41 3.24358 495145.95
3761676.41 3.08788
495165.95 3761676.41 2.94760 495185.95
3761676.41 2.81936

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         495205.95    3761676.41        2.70088                      495225.95
3761676.41        2.59118
         495245.95    3761676.41        2.48848                      495265.95
3761676.41        2.39130
         495285.95    3761676.41        2.29634                      495305.95
3761676.41        2.20749
         495325.95    3761676.41        2.12428                      495345.95
3761676.41        2.04658
         495365.95    3761676.41        1.98018                      495385.95
3761676.41        1.91523
         495405.95    3761676.41        1.84917                      495425.95
3761676.41        1.77983
         495445.95    3761676.41        1.70415                      495465.95
3761676.41        1.65090
         495485.95    3761676.41        1.60159                      495505.95
3761676.41        1.55220
         495525.95    3761676.41        1.50207                      494845.95
3761696.41        8.78117
```

```
                              *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: INBOUND  ***
                                 INCLUDING SOURCE(S):     L0000423    , L0000424
, L0000425    , L0000426    , L0000427    ,
                  L0000428    , L0000429    , L0000430    , L0000431    , L0000432
, L0000433    , L0000434    , L0000435    ,
                  L0000436    , L0000437    , L0000438    , L0000439    , L0000440
, L0000441    , L0000442    , L0000443    ,
                  L0000444    , L0000445    , L0000446    , L0000447    , L0000448
, L0000449    , L0000450    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                 ** CONC OF VARIOUS  IN MICROGRAMS/M**3
                  **

      X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         494865.95    3761696.41        7.41471                      494885.95
3761696.41        6.57440
         494905.95    3761696.41        5.98976                      494925.95
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3761696.41        5.50031
         494945.95    3761696.41        5.08715                    494965.95
3761696.41        4.74130
         494985.95    3761696.41        4.45736                    495005.95
3761696.41        4.19443
         495025.95    3761696.41        3.97317                    495045.95
3761696.41        3.75505
         495065.95    3761696.41        3.56310                    495085.95
3761696.41        3.40090
         495105.95    3761696.41        3.23979                    495125.95
3761696.41        3.08834
         495145.95    3761696.41        2.94779                    495165.95
3761696.41        2.81906
         495185.95    3761696.41        2.70084                    495205.95
3761696.41        2.58762
         495225.95    3761696.41        2.48044                    495245.95
3761696.41        2.38190
         495265.95    3761696.41        2.29457                    495285.95
3761696.41        2.20752
         495305.95    3761696.41        2.12250                    495325.95
3761696.41        2.04247
         495345.95    3761696.41        1.96880                    495365.95
3761696.41        1.90057
         495385.95    3761696.41        1.83795                    495405.95
3761696.41        1.77761
         495425.95    3761696.41        1.71584                    495445.95
3761696.41        1.64688
         495465.95    3761696.41        1.58470                    495485.95
3761696.41        1.53514
         495505.95    3761696.41        1.49077                    495525.95
3761696.41        1.44691
         494845.95    3761716.41        8.21246                    494865.95
3761716.41        6.95443
         494885.95    3761716.41        6.18024                    494905.95
3761716.41        5.63634
         494925.95    3761716.41        5.18503                    494945.95
3761716.41        4.80402
         494965.95    3761716.41        4.48251                    494985.95
3761716.41        4.21680
         495005.95    3761716.41        3.97153                    495025.95
3761716.41        3.76172
         495045.95    3761716.41        3.55817                    495065.95
3761716.41        3.38179
         495085.95    3761716.41        3.22874                    495105.95
3761716.41        3.07676
         495125.95    3761716.41        2.93773                    495145.95
3761716.41        2.81011
         495165.95    3761716.41        2.69155                    495185.95
3761716.41        2.58409
         495205.95    3761716.41        2.47554                    495225.95
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3761716.41        2.37043
         495245.95    3761716.41        2.27515                        495265.95
3761716.41        2.19825
         495285.95    3761716.41        2.12010                        495305.95
3761716.41        2.04033
         495325.95    3761716.41        1.96481                        495345.95
3761716.41        1.89598
         495365.95    3761716.41        1.82659                        495385.95
3761716.41        1.76450
         495405.95    3761716.41        1.70807                        495425.95
3761716.41        1.65329
         495445.95    3761716.41        1.59388                        495465.95
3761716.41        1.52560
         495485.95    3761716.41        1.47566                        495505.95
3761716.41        1.43467
         495525.95    3761716.41        1.39548                        495545.95
3761716.41        1.35727
         494845.95    3761736.41        7.62979                        494865.95
3761736.41        6.49012
         494885.95    3761736.41        5.79265                        494905.95
3761736.41        5.29618
         494925.95    3761736.41        4.88355                        494945.95
3761736.41        4.53151
         494965.95    3761736.41        4.23484                        494985.95
3761736.41        3.99380
         495005.95    3761736.41        3.76276                        495025.95
3761736.41        3.56533
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                      ***        08:18:30

                                 PAGE  80
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: INBOUND  ***
                                 INCLUDING SOURCE(S):     L0000423    , L0000424
, L0000425    , L0000426    , L0000427    ,
                  L0000428    , L0000429    , L0000430    , L0000431    , L0000432
, L0000433    , L0000434    , L0000435    ,
                  L0000436    , L0000437    , L0000438    , L0000439    , L0000440
, L0000441    , L0000442    , L0000443    ,
                  L0000444    , L0000445    , L0000446    , L0000447    , L0000448
, L0000449    , L0000450    ,  . . .      ,

                                     *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF VARIOUS  IN MICROGRAMS/M**3
```

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
495045.95	3761736.41	3.37648	495065.95	3761736.41	3.21287
495085.95	3761736.41	3.06844	495105.95	3761736.41	2.92564
495125.95	3761736.41	2.79370	495145.95	3761736.41	2.67196
495165.95	3761736.41	2.55980	495185.95	3761736.41	2.46160
495205.95	3761736.41	2.35984	495225.95	3761736.41	2.25839
495245.95	3761736.41	2.16566	495265.95	3761736.41	2.09862
495285.95	3761736.41	2.02966	495305.95	3761736.41	1.95813
495325.95	3761736.41	1.88916	495345.95	3761736.41	1.82701
495365.95	3761736.41	1.76100	495385.95	3761736.41	1.69733
495405.95	3761736.41	1.64184	495425.95	3761736.41	1.59226
495445.95	3761736.41	1.54227	495465.95	3761736.41	1.47803
495485.95	3761736.41	1.42792	495505.95	3761736.41	1.38664
495525.95	3761736.41	1.34908	495545.95	3761736.41	1.31128
494845.95	3761756.41	6.99243	494865.95	3761756.41	6.00625
494885.95	3761756.41	5.39900	494905.95	3761756.41	4.95764
494925.95	3761756.41	4.59127	494945.95	3761756.41	4.27803
494965.95	3761756.41	4.00979	494985.95	3761756.41	3.78531
495005.95	3761756.41	3.57157	495025.95	3761756.41	3.38964
495045.95	3761756.41	3.21594	495065.95	3761756.41	3.06273
495085.95	3761756.41	2.92483	495105.95	3761756.41	2.78860
495125.95	3761756.41	2.66199	495145.95	3761756.41	2.54556
495165.95	3761756.41	2.43871	495185.95	3761756.41	2.34811

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         495205.95    3761756.41        2.25719                      495225.95
3761756.41        2.16495
         495245.95    3761756.41        2.07853                      495265.95
3761756.41        2.01367
         495285.95    3761756.41        1.94730                      495305.95
3761756.41        1.87943
         495325.95    3761756.41        1.81530                      495345.95
3761756.41        1.75693
         495365.95    3761756.41        1.69523                      495385.95
3761756.41        1.63562
         495405.95    3761756.41        1.58292                      495425.95
3761756.41        1.53589
         495445.95    3761756.41        1.48918                      495465.95
3761756.41        1.43510
         495485.95    3761756.41        1.38922                      495505.95
3761756.41        1.34884
         495525.95    3761756.41        1.31140                      495545.95
3761756.41        1.27311
         495565.95    3761756.41        1.23778                      494845.95
3761776.41        6.22331
         494865.95    3761776.41        5.48036                      494885.95
3761776.41        4.99198
         494905.95    3761776.41        4.61588                      494925.95
3761776.41        4.30271
         494945.95    3761776.41        4.03084                      494965.95
3761776.41        3.79203
         494985.95    3761776.41        3.58399                      495005.95
3761776.41        3.38767
         495025.95    3761776.41        3.22169                      495045.95
3761776.41        3.06262
         495065.95    3761776.41        2.91820                      495085.95
3761776.41        2.78725
         495105.95    3761776.41        2.65850                      495125.95
3761776.41        2.53746
         495145.95    3761776.41        2.42602                      495165.95
3761776.41        2.32464
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                      ***        08:18:30

                                   PAGE  81
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: INBOUND  ***
                                   INCLUDING SOURCE(S):     L0000423    , L0000424
, L0000425    , L0000426    , L0000427    ,
                  L0000428    , L0000429    , L0000430    , L0000431    , L0000432
, L0000433    , L0000434    , L0000435    ,
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L0000436 , L0000437 , L0000438 , L0000439 , L0000440
, L0000441 , L0000442 , L0000443 ,
L0000444 , L0000445 , L0000446 , L0000447 , L0000448
, L0000449 , L0000450 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF VARIOUS IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
495185.95	3761776.41	2.24115	495205.95	3761776.41	2.16089
495225.95	3761776.41	2.07941	495245.95	3761776.41	2.00000
495265.95	3761776.41	1.93501	495285.95	3761776.41	1.86945
495305.95	3761776.41	1.80500	495325.95	3761776.41	1.74440
495345.95	3761776.41	1.68830	495365.95	3761776.41	1.63168
495385.95	3761776.41	1.57683	495405.95	3761776.41	1.52761
495425.95	3761776.41	1.48241	495445.95	3761776.41	1.43720
495465.95	3761776.41	1.39359	495485.95	3761776.41	1.35199
495505.95	3761776.41	1.31295	495525.95	3761776.41	1.27562
495545.95	3761776.41	1.23750	495565.95	3761776.41	1.19895
494845.95	3761796.41	5.39923	494865.95	3761796.41	4.92768
494885.95	3761796.41	4.56329	494905.95	3761796.41	4.26506
494925.95	3761796.41	4.00407	494945.95	3761796.41	3.77144
494965.95	3761796.41	3.56211	494985.95	3761796.41	3.37219
495005.95	3761796.41	3.20074	495025.95	3761796.41	3.04402
495045.95	3761796.41	2.89903	495065.95	3761796.41	2.76502
495085.95	3761796.41	2.64143	495105.95	3761796.41	2.52383
495125.95	3761796.41	2.41231	495145.95		

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3761796.41        2.30940
         495165.95    3761796.41        2.21616                    495185.95
3761796.41        2.13843
         495205.95    3761796.41        2.06610                    495225.95
3761796.41        1.99328
         495245.95    3761796.41        1.92109                    495265.95
3761796.41        1.85722
         495285.95    3761796.41        1.79574                    495305.95
3761796.41        1.73582
         495325.95    3761796.41        1.67779                    495345.95
3761796.41        1.62252
         495365.95    3761796.41        1.57041                    495385.95
3761796.41        1.52064
         495405.95    3761796.41        1.47444                    495425.95
3761796.41        1.43070
         495445.95    3761796.41        1.38846                    495465.95
3761796.41        1.34790
         495485.95    3761796.41        1.30891                    495505.95
3761796.41        1.27141
         495525.95    3761796.41        1.23531                    495545.95
3761796.41        1.19990
         495565.95    3761796.41        1.16292                    494965.95
3761816.41        3.35050
         494985.95    3761816.41        3.17808                    495005.95
3761816.41        3.02297
         495025.95    3761816.41        2.88095                    495045.95
3761816.41        2.74873
         495065.95    3761816.41        2.62534                    495085.95
3761816.41        2.50998
         495105.95    3761816.41        2.40030                    495125.95
3761816.41        2.29697
         495145.95    3761816.41        2.20189                    495165.95
3761816.41        2.11613
         495185.95    3761816.41        2.04272                    495205.95
3761816.41        1.97349
         495225.95    3761816.41        1.90410                    495245.95
3761816.41        1.83634
         495265.95    3761816.41        1.77538                    495285.95
3761816.41        1.71769
         495305.95    3761816.41        1.66239                    495325.95
3761816.41        1.60868
         495345.95    3761816.41        1.55621                    495365.95
3761816.41        1.50674
         495385.95    3761816.41        1.46116                    495405.95
3761816.41        1.41856
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                       ***        08:18:30
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: INBOUND ***

INCLUDING SOURCE(S): L0000423 , L0000424 , L0000425 , L0000426 , L0000427 , L0000428 , L0000429 , L0000430 , L0000431 , L0000432 , L0000433 , L0000434 , L0000435 , L0000436 , L0000437 , L0000438 , L0000439 , L0000440 , L0000441 , L0000442 , L0000443 , L0000444 , L0000445 , L0000446 , L0000447 , L0000448 , L0000449 , L0000450 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
495425.95	3761816.41	1.37793	495445.95	3761816.41	1.33863
495465.95	3761816.41	1.30059	495485.95	3761816.41	1.26352
495505.95	3761816.41	1.22740	495525.95	3761816.41	1.19218
495545.95	3761816.41	1.15805	495565.95	3761816.41	1.12358
495125.95	3761836.41	2.19016	495145.95	3761836.41	2.10177
495165.95	3761836.41	2.02289	495185.95	3761836.41	1.95383
495205.95	3761836.41	1.88531	495225.95	3761836.41	1.81712
495365.95	3761836.41	1.44419	495385.95	3761836.41	1.40234
495405.95	3761836.41	1.36348	495425.95	3761836.41	1.32659
495445.95	3761836.41	1.29033	495465.95	3761836.41	1.25423
495485.95	3761836.41	1.21878	495505.95	3761836.41	1.18400
495525.95	3761836.41	1.14966	495545.95	3761836.41	1.11579
495565.95	3761836.41	1.08357	495125.95	3761856.41	2.09206

```
         495145.95    3761856.41        2.00787                    495165.95
3761856.41        1.93313
         495185.95    3761856.41        1.87106                    495205.95
3761856.41        1.80465
         495225.95    3761856.41        1.73856                    495385.95
3761856.41        1.35042
         495405.95    3761856.41        1.31618                    495425.95
3761856.41        1.28188
         495445.95    3761856.41        1.24784                    495465.95
3761856.41        1.21273
         495485.95    3761856.41        1.17914                    495505.95
3761856.41        1.14592
         495525.95    3761856.41        1.11208                    495545.95
3761856.41        1.07735
         495565.95    3761856.41        1.04360                    495125.95
3761876.41        2.00262
         495145.95    3761876.41        1.92256                    495165.95
3761876.41        1.85061
         495185.95    3761876.41        1.79208                    495205.95
3761876.41        1.72839
         495225.95    3761876.41        1.66568                    495385.95
3761876.41        1.30241
         495405.95    3761876.41        1.27145                    495425.95
3761876.41        1.23908
         495445.95    3761876.41        1.20689                    495465.95
3761876.41        1.17382
         495485.95    3761876.41        1.14237                    495505.95
3761876.41        1.11100
         495525.95    3761876.41        1.07855                    495545.95
3761876.41        1.04405
         495565.95    3761876.41        1.00946                    495125.95
3761896.41        1.92076
         495145.95    3761896.41        1.84523                    495165.95
3761896.41        1.77525
         495185.95    3761896.41        1.71748                    495205.95
3761896.41        1.65630
         495225.95    3761896.41        1.59814                    495385.95
3761896.41        1.25733
         495405.95    3761896.41        1.22920                    495425.95
3761896.41        1.19837
         495445.95    3761896.41        1.16723                    495465.95
3761896.41        1.13695
         495485.95    3761896.41        1.10751                    495505.95
3761896.41        1.07827
         495525.95    3761896.41        1.04769                    495545.95
3761896.41        1.01391
         495565.95    3761896.41        0.97951                    495585.95
3761896.41        0.95264
         495125.95    3761916.41        1.84761                    495145.95
3761916.41        1.77731
```

                               *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: INBOUND ***
                                  INCLUDING SOURCE(S):   L0000423   , L0000424
, L0000425   , L0000426   , L0000427   ,
                  L0000428   , L0000429   , L0000430   , L0000431   , L0000432
, L0000433   , L0000434   , L0000435   ,
                  L0000436   , L0000437   , L0000438   , L0000439   , L0000440
, L0000441   , L0000442   , L0000443   ,
                  L0000444   , L0000445   , L0000446   , L0000447   , L0000448
, L0000449   , L0000450   , . . .   ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         495385.95   3761916.41   1.21061   495405.95
3761916.41   1.18311
         495425.95   3761916.41   1.15461   495445.95
3761916.41   1.12549
         495465.95   3761916.41   1.09694   495485.95
3761916.41   1.06915
         495505.95   3761916.41   1.04070   495525.95
3761916.41   1.01059
         495545.95   3761916.41   0.97904   495565.95
3761916.41   0.94752
         495585.95   3761916.41   0.92268   495125.95
3761936.41   1.77814
         495145.95   3761936.41   1.71271   495165.95
3761936.41   1.64961
         495185.95   3761936.41   1.59731   495205.95
3761936.41   1.53941
         495225.95   3761936.41   1.48772   495145.95

3761956.41 1.65037
495165.95 3761956.41 1.59152 495185.95
3761956.41 1.54330
495205.95 3761956.41 1.48903 495225.95
3761956.41 1.43961
495145.95 3761976.41 1.59275 495165.95
3761976.41 1.53673
495185.95 3761976.41 1.49056 495205.95
3761976.41 1.43910
495225.95 3761976.41 1.39157 495145.95
3761996.41 1.53723
495165.95 3761996.41 1.48461 495185.95
3761996.41 1.43967
495205.95 3761996.41 1.39088 495225.95
3761996.41 1.34548
495145.95 3762016.41 1.48365 495165.95
3762016.41 1.43460
495185.95 3762016.41 1.39050 495205.95
3762016.41 1.34394
495225.95 3762016.41 1.30028 495145.95
3762036.41 1.43294
495165.95 3762036.41 1.38657 495185.95
3762036.41 1.34294
495205.95 3762036.41 1.29821 495225.95
3762036.41 1.25653
495145.95 3762056.41 1.38556 495165.95
3762056.41 1.34135
495185.95 3762056.41 1.29846 495205.95
3762056.41 1.25542
495225.95 3762056.41 1.21558 494031.10
3761757.45 3.81022
494022.49 3761743.26 3.82228 494020.46
3761734.14 3.86061
494013.36 3761724.00 3.85824 494002.72
3761712.34 3.82747
493991.57 3761703.22 3.76982 493980.42
3761692.58 3.72162
493969.78 3761686.49 3.65331 493957.61
3761681.43 3.56821
493943.93 3761673.82 3.47687 493926.19
3761672.81 3.33401
493913.51 3761671.29 3.23983 493899.83
3761669.77 3.14388
493832.42 3761639.36 2.79777 493822.79
3761647.47 2.72031
493811.13 3761658.11 2.62434 493809.61
3761669.26 2.58770
493817.72 3761682.44 2.59969 493833.43
3761689.53 2.66792
493853.71 3761695.11 2.76772 493871.45

3761693.08   2.88123
         493888.17   3761693.08   2.98878   493905.91
3761693.59   3.10785
         493920.61   3761694.60   3.21036   493939.36
3761698.15   3.33982
         493959.64   3761706.77   3.46686   493975.35
3761717.41   3.54860
         493983.46   3761726.03   3.57367   493991.06
3761738.19   3.57300
         494001.20   3761754.41   3.56845   493984.47
3761753.40   3.43646
         493980.42   3761746.81   3.43826   493970.79
3761734.64   3.42249

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: INBOUND ***
                                 INCLUDING SOURCE(S):   L0000423   , L0000424
, L0000425   , L0000426   , L0000427   ,
                  L0000428   , L0000429   , L0000430   , L0000431   , L0000432
, L0000433   , L0000434   , L0000435   ,
                  L0000436   , L0000437   , L0000438   , L0000439   , L0000440
, L0000441   , L0000442   , L0000443   ,
                  L0000444   , L0000445   , L0000446   , L0000447   , L0000448
, L0000449   , L0000450   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

```
         493829.38    3761709.81        2.58678                    493806.57
3761701.19        2.49063
         493799.47    3761683.96        2.49610                    493797.45
3761663.18        2.53311
         493779.71    3761668.25        2.42474                    493775.14
3761687.51        2.35993
         493782.75    3761700.18        2.36985                    493793.39
3761716.90        2.38272
         493809.10    3761730.59        2.42395                    493821.27
3761732.11        2.47969
         493843.57    3761730.59        2.59960                    493874.99
3761733.63        2.76585
         493883.61    3761733.12        2.81884                    493904.90
3761734.64        2.94585
         493928.72    3761736.17        3.09929                    493941.39
3761745.80        3.14765
         493954.06    3761758.47        3.18190                    493931.76
3761757.45        3.03294
         493915.54    3761754.92        2.93751                    493903.38
3761754.41        2.86354
         493888.68    3761754.41        2.77553                    493872.97
3761753.91        2.68675
         493851.68    3761754.41        2.56925                    493835.46
3761751.88        2.49358
         493818.73    3761751.37        2.41283                    493742.20
3761651.01        2.25242
         493742.20    3761665.21        2.22890                    493742.20
3761680.41        2.20267
         493746.25    3761695.11        2.19732                    493750.31
3761708.80        2.19236
         493754.87    3761721.47        2.19203                    493757.91
3761732.62        2.18501
         493772.10    3761750.36        2.20597                    493760.44
3761749.34        2.16012
         493749.29    3761748.84        2.11636                    493730.54
3761748.84        2.04328
         493705.70    3761747.32        1.95343                    493712.80
3761770.63        1.92716
         493739.66    3761767.59        2.03339                    493757.40
3761769.11        2.09837
         493780.21    3761771.14        2.18521                    493801.50
3761770.12        2.27813
         493830.90    3761773.17        2.40272                    493850.66
3761773.67        2.50108
         493872.46    3761773.67        2.61890                    493893.75
3761776.71        2.72768
         493908.45    3761775.70        2.81669                    493926.19
3761779.75        2.90821
         493937.84    3761778.74        2.98501                    493952.54
3761780.26        3.07407
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         493967.75    3761779.75        3.17966                      493975.35
3761783.81        3.21340
         493989.54    3761780.26        3.33391                      494000.19
3761781.78        3.40624
         494014.88    3761785.33        3.50015                      494027.05
3761785.84        3.59487
         494049.35    3761786.34        3.77952                      494066.08
3761786.34        3.92862
         494171.35    3761821.06        4.65824                      494176.48
3761840.83        4.47857
         494171.35    3761886.24        3.95679                      494831.53
3761814.80        5.10008
         494846.31    3761570.20       12.85533                      494859.75
3761515.10       13.14692
         494839.59    3761451.93       17.89670                      494863.63
3761459.20       14.69926
         494887.97    3761461.34       12.60595                      494935.78
3761472.98        9.71664
         494961.89    3761422.37        9.81195                      494996.53
3761368.08        9.26933
         494991.46    3761326.95        9.71534                      495039.84
3761351.14        8.07157
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                      ***       08:18:30

                                  PAGE  85
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: INBOUND  ***
                                  INCLUDING SOURCE(S):     L0000423    , L0000424
, L0000425    , L0000426    , L0000427    ,
                 L0000428    , L0000429    , L0000430    , L0000431    , L0000432
, L0000433    , L0000434    , L0000435    ,
                 L0000436    , L0000437    , L0000438    , L0000439    , L0000440
, L0000441    , L0000442    , L0000443    ,
                 L0000444    , L0000445    , L0000446    , L0000447    , L0000448
, L0000449    , L0000450    ,  . . .      ,

                                     *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF VARIOUS  IN MICROGRAMS/M**3
                 **

      X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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- - - -

3761336.41 2.51329
495405.95 3761336.41 2.44052 495005.95
3761356.41 4.99798
495025.95 3761356.41 4.82108 495045.95
3761356.41 4.63466
495065.95 3761356.41 4.42811 495085.95
3761356.41 4.08391
495105.95 3761356.41 3.80984 495125.95
3761356.41 3.66645
495145.95 3761356.41 3.59034 495165.95
3761356.41 3.51056
495185.95 3761356.41 3.41537 495205.95
3761356.41 3.31756
495225.95 3761356.41 3.23382 495245.95
3761356.41 3.16187
495265.95 3761356.41 3.09230 495285.95
3761356.41 3.06074
495305.95 3761356.41 2.95511 495325.95
3761356.41 2.85142
495345.95 3761356.41 2.76263 495365.95
3761356.41 2.66429
495385.95 3761356.41 2.57390 495405.95
3761356.41 2.49127
495425.95 3761356.41 2.41333 495445.95
3761356.41 2.33288
495005.95 3761376.41 5.22822 495025.95
3761376.41 5.03383
495045.95 3761376.41 4.83910 495065.95
3761376.41 4.64795
495085.95 3761376.41 4.42148 495105.95
3761376.41 4.16506
495125.95 3761376.41 3.98153 495145.95
3761376.41 3.85185
495165.95 3761376.41 3.72152 495185.95
3761376.41 3.59164
495205.95 3761376.41 3.47762 495225.95
3761376.41 3.39620
495245.95 3761376.41 3.32218 495265.95
3761376.41 3.23176
495285.95 3761376.41 3.13404 495305.95
3761376.41 3.01843
495325.95 3761376.41 2.91580 495345.95
3761376.41 2.82231
495365.95 3761376.41 2.72687 495385.95
3761376.41 2.63403
495405.95 3761376.41 2.54479 495425.95
3761376.41 2.45650
495445.95 3761376.41 2.36346 495465.95
3761376.41 2.28226
495485.95 3761376.41 2.21874 494985.95

3761396.41 5.68906
  495005.95 3761396.41 5.46857 495025.95
3761396.41 5.24391
  495045.95 3761396.41 5.03115 495065.95
3761396.41 4.82793
  495085.95 3761396.41 4.62402 495105.95
3761396.41 4.39093
  495125.95 3761396.41 4.20532 495145.95
3761396.41 4.05983
  495165.95 3761396.41 3.91527 495185.95
3761396.41 3.77127
  495205.95 3761396.41 3.64341 495225.95
3761396.41 3.54348
  495245.95 3761396.41 3.43880 495265.95
3761396.41 3.32267
  495285.95 3761396.41 3.20285 495305.95
3761396.41 3.08763

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: REFUELIN ***
INCLUDING SOURCE(S): VOL1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
495325.95	3761396.41	2.97862	495345.95	3761396.41	2.87296
495365.95	3761396.41	2.77502	495385.95	3761396.41	2.68063
495405.95	3761396.41	2.58910	495425.95	3761396.41	2.49864
495445.95	3761396.41	2.40590	495465.95	3761396.41	2.32551
495485.95	3761396.41	2.25653	495505.95	3761396.41	2.20490
494965.95	3761416.41	6.24213	494985.95		

3761416.41 5.96295
495005.95 3761416.41 5.69946 495025.95
3761416.41 5.45077
495045.95 3761416.41 5.21888 495065.95
3761416.41 4.99994
495085.95 3761416.41 4.79217 495105.95
3761416.41 4.58652
495125.95 3761416.41 4.39668 495145.95
3761416.41 4.22504
495165.95 3761416.41 4.06332 495185.95
3761416.41 3.91116
495205.95 3761416.41 3.77208 495225.95
3761416.41 3.64942
495245.95 3761416.41 3.52099 495265.95
3761416.41 3.39437
495285.95 3761416.41 3.27272 495305.95
3761416.41 3.15542
495325.95 3761416.41 3.03695 495345.95
3761416.41 2.91371
495365.95 3761416.41 2.81277 495385.95
3761416.41 2.71837
495405.95 3761416.41 2.62708 495425.95
3761416.41 2.53740
495445.95 3761416.41 2.44857 495465.95
3761416.41 2.36847
495485.95 3761416.41 2.29583 495505.95
3761416.41 2.23230
495525.95 3761416.41 2.17922 494965.95
3761436.41 6.51813
494985.95 3761436.41 6.21193 495005.95
3761436.41 5.92177
495025.95 3761436.41 5.65154 495045.95
3761436.41 5.40047
495065.95 3761436.41 5.16478 495085.95
3761436.41 4.94272
495105.95 3761436.41 4.73644 495125.95
3761436.41 4.54285
495145.95 3761436.41 4.35933 495165.95
3761436.41 4.18663
495185.95 3761436.41 4.02655 495205.95
3761436.41 3.87729
495225.95 3761436.41 3.73674 495245.95
3761436.41 3.59368
495265.95 3761436.41 3.46413 495285.95
3761436.41 3.34005
495305.95 3761436.41 3.21823 495325.95
3761436.41 3.08928
495345.95 3761436.41 2.94640 495365.95
3761436.41 2.84316
495385.95 3761436.41 2.75019 495405.95

3761436.41   2.66017
         495425.95   3761436.41   2.57202   495445.95
3761436.41   2.48668
         495465.95   3761436.41   2.40744   495485.95
3761436.41   2.33227
         495505.95   3761436.41   2.26133   495525.95
3761436.41   2.19541
         494845.95   3761456.41   9.38846   494945.95
3761456.41   7.12987
         494965.95   3761456.41   6.78085   494985.95
3761456.41   6.44609
         495005.95   3761456.41   6.13172   495025.95
3761456.41   5.84144
         495045.95   3761456.41   5.57161   495065.95
3761456.41   5.31861
         495085.95   3761456.41   5.08251   495105.95
3761456.41   4.86223
         495125.95   3761456.41   4.65819   495145.95
3761456.41   4.46830

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: REFUELIN ***
                                 INCLUDING SOURCE(S):   VOL1   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

3761456.41 2.98126
495365.95 3761456.41 2.87945 495385.95
3761456.41 2.78671
495405.95 3761456.41 2.69484 495425.95
3761456.41 2.60218
495445.95 3761456.41 2.50874 495465.95
3761456.41 2.43247
495485.95 3761456.41 2.35862 495505.95
3761456.41 2.28534
495525.95 3761456.41 2.21324 494865.95
3761476.41 9.32334
494885.95 3761476.41 8.78939 494905.95
3761476.41 8.28821
494925.95 3761476.41 7.82783 494945.95
3761476.41 7.40759
494965.95 3761476.41 7.01897 494985.95
3761476.41 6.65789
495005.95 3761476.41 6.32132 495025.95
3761476.41 6.01189
495045.95 3761476.41 5.72409 495065.95
3761476.41 5.45498
495085.95 3761476.41 5.20510 495105.95
3761476.41 4.97206
495125.95 3761476.41 4.75609 495145.95
3761476.41 4.55657
495165.95 3761476.41 4.37129 495185.95
3761476.41 4.19473
495205.95 3761476.41 4.02741 495225.95
3761476.41 3.86443
495245.95 3761476.41 3.70676 495265.95
3761476.41 3.56987
495285.95 3761476.41 3.43671 495305.95
3761476.41 3.30382
495325.95 3761476.41 3.16423 495345.95
3761476.41 3.01702
495365.95 3761476.41 2.91630 495385.95
3761476.41 2.82100
495405.95 3761476.41 2.72533 495425.95
3761476.41 2.62719
495445.95 3761476.41 2.52515 495465.95
3761476.41 2.45052
495485.95 3761476.41 2.37730 495505.95
3761476.41 2.30262
495525.95 3761476.41 2.22702 494865.95
3761496.41 9.71714
494885.95 3761496.41 9.13051 494905.95
3761496.41 8.58556
494925.95 3761496.41 8.09096 494945.95
3761496.41 7.63785
494965.95 3761496.41 7.22067 494985.95

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: REFUELIN ***
INCLUDING SOURCE(S): VOL1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
495405.95	3761496.41	2.74770	495425.95	3761496.41	2.64377
495445.95	3761496.41	2.53306	495465.95	3761496.41	2.45924
495485.95	3761496.41	2.38671	495505.95	3761496.41	2.31172
495525.95	3761496.41	2.23426	494865.95		

3761516.41 10.04282
494885.95 3761516.41 9.40720 494905.95
3761516.41 8.81723
494925.95 3761516.41 8.29117 494945.95
3761516.41 7.81150
494965.95 3761516.41 7.37078 494985.95
3761516.41 6.96550
495005.95 3761516.41 6.59312 495025.95
3761516.41 6.25139
495045.95 3761516.41 5.93441 495065.95
3761516.41 5.63837
495085.95 3761516.41 5.36517 495105.95
3761516.41 5.11513
495125.95 3761516.41 4.88213 495145.95
3761516.41 4.66519
495165.95 3761516.41 4.46402 495185.95
3761516.41 4.27259
495205.95 3761516.41 4.09251 495225.95
3761516.41 3.92285
495245.95 3761516.41 3.76327 495265.95
3761516.41 3.61465
495285.95 3761516.41 3.47145 495305.95
3761516.41 3.33322
495325.95 3761516.41 3.19888 495345.95
3761516.41 3.06949
495365.95 3761516.41 2.96242 495385.95
3761516.41 2.85867
495405.95 3761516.41 2.75490 495425.95
3761516.41 2.64789
495445.95 3761516.41 2.53425 495465.95
3761516.41 2.45949
495485.95 3761516.41 2.38679 495505.95
3761516.41 2.31156
495525.95 3761516.41 2.23315 494865.95
3761536.41 10.23824
494885.95 3761536.41 9.56872 494905.95
3761536.41 8.95053
494925.95 3761536.41 8.40259 494945.95
3761536.41 7.90444
494965.95 3761536.41 7.44759 494985.95
3761536.41 7.02894
495005.95 3761536.41 6.64722 495025.95
3761536.41 6.29608
495045.95 3761536.41 5.96982 495065.95
3761536.41 5.66523
495085.95 3761536.41 5.38664 495105.95
3761536.41 5.13124
495125.95 3761536.41 4.89298 495145.95
3761536.41 4.67113
495165.95 3761536.41 4.46567 495185.95

3761536.41   4.27252
         495205.95   3761536.41   4.09055   495225.95
3761536.41   3.91929
         495245.95   3761536.41   3.75837   495265.95
3761536.41   3.60745
         495285.95   3761536.41   3.46296   495305.95
3761536.41   3.32524
         495325.95   3761536.41   3.19406   495345.95
3761536.41   3.07009
         495365.95   3761536.41   2.95848   495385.95
3761536.41   2.85193
         495405.95   3761536.41   2.74688   495425.95
3761536.41   2.64052
         495445.95   3761536.41   2.52914   495465.95
3761536.41   2.44990
         495485.95   3761536.41   2.37571   495505.95
3761536.41   2.29995
         495525.95   3761536.41   2.22116   494865.95
3761556.41   10.27457
         494885.95   3761556.41   9.59112   494905.95
3761556.41   8.96398
         494925.95   3761556.41   8.40673   494945.95
3761556.41   7.90091

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: REFUELIN ***
                                 INCLUDING SOURCE(S):   VOL1   ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                 ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         494965.95   3761556.41   7.43788   494985.95
3761556.41   7.01504
         495005.95   3761556.41   6.63121   495025.95
3761556.41   6.27657
         495045.95   3761556.41   5.94594   495065.95

3761556.41 5.63806
495085.95 3761556.41 5.36063 495105.95
3761556.41 5.10261
495125.95 3761556.41 4.86120 495145.95
3761556.41 4.63669
495165.95 3761556.41 4.42996 495185.95
3761556.41 4.23637
495205.95 3761556.41 4.05488 495225.95
3761556.41 3.88429
495245.95 3761556.41 3.72447 495265.95
3761556.41 3.57490
495285.95 3761556.41 3.43274 495305.95
3761556.41 3.29833
495325.95 3761556.41 3.17076 495345.95
3761556.41 3.04971
495365.95 3761556.41 2.93469 495385.95
3761556.41 2.82713
495405.95 3761556.41 2.72353 495425.95
3761556.41 2.62103
495445.95 3761556.41 2.51670 495465.95
3761556.41 2.43052
495485.95 3761556.41 2.35325 495505.95
3761556.41 2.27713
495525.95 3761556.41 2.19840 494845.95
3761576.41 10.89097
494865.95 3761576.41 10.14034 494885.95
3761576.41 9.46284
494905.95 3761576.41 8.84645 494925.95
3761576.41 8.29503
494945.95 3761576.41 7.79372 494965.95
3761576.41 7.33531
494985.95 3761576.41 6.91822 495005.95
3761576.41 6.53941
495025.95 3761576.41 6.18796 495045.95
3761576.41 5.86020
495065.95 3761576.41 5.55670 495085.95
3761576.41 5.28624
495105.95 3761576.41 5.03183 495125.95
3761576.41 4.79213
495145.95 3761576.41 4.56843 495165.95
3761576.41 4.36086
495185.95 3761576.41 4.16668 495205.95
3761576.41 3.98449
495225.95 3761576.41 3.81398 495245.95
3761576.41 3.65405
495265.95 3761576.41 3.50534 495285.95
3761576.41 3.36552
495305.95 3761576.41 3.23528 495325.95
3761576.41 3.11253
495345.95 3761576.41 2.99583 495365.95

3761576.41   2.88373
         495385.95   3761576.41   2.77878   495405.95
3761576.41   2.67996
         495425.95   3761576.41   2.58475   495445.95
3761576.41   2.48804
         495465.95   3761576.41   2.40132   495485.95
3761576.41   2.32207
         495505.95   3761576.41   2.24378   495525.95
3761576.41   2.16477
         494845.95   3761596.41   10.56744   494865.95
3761596.41   9.84369
         494885.95   3761596.41   9.19175   494905.95
3761596.41   8.60257
         494925.95   3761596.41   8.07133   494945.95
3761596.41   7.58647
         494965.95   3761596.41   7.14300   494985.95
3761596.41   6.74148
         495005.95   3761596.41   6.37464   495025.95
3761596.41   6.03341
         495045.95   3761596.41   5.71518   495065.95
3761596.41   5.42241
         495085.95   3761596.41   5.16343   495105.95
3761596.41   4.91661
         495125.95   3761596.41   4.68367   495145.95
3761596.41   4.46483

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: REFUELIN ***
                                 INCLUDING SOURCE(S):   VOL1   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         495165.95   3761596.41   4.26106   495185.95
3761596.41   4.07038
         495205.95   3761596.41   3.89196   495225.95

3761596.41 3.72466
495245.95 3761596.41 3.56795 495265.95
3761596.41 3.42164
495285.95 3761596.41 3.28554 495305.95
3761596.41 3.15951
495325.95 3761596.41 3.04099 495345.95
3761596.41 2.92857
495365.95 3761596.41 2.82041 495385.95
3761596.41 2.71755
495405.95 3761596.41 2.62172 495425.95
3761596.41 2.53167
495445.95 3761596.41 2.44361 495465.95
3761596.41 2.35870
495485.95 3761596.41 2.27916 495505.95
3761596.41 2.20103
495525.95 3761596.41 2.12282 494845.95
3761616.41 10.08695
494865.95 3761616.41 9.40988 494885.95
3761616.41 8.79875
494905.95 3761616.41 8.25078 494925.95
3761616.41 7.75253
494945.95 3761616.41 7.29407 494965.95
3761616.41 6.87401
494985.95 3761616.41 6.49559 495005.95
3761616.41 6.14717
495025.95 3761616.41 5.82191 495045.95
3761616.41 5.51972
495065.95 3761616.41 5.24251 495085.95
3761616.41 4.99760
495105.95 3761616.41 4.76261 495125.95
3761616.41 4.54070
495145.95 3761616.41 4.33192 495165.95
3761616.41 4.13645
495185.95 3761616.41 3.95474 495205.95
3761616.41 3.78398
495225.95 3761616.41 3.62409 495245.95
3761616.41 3.47355
495265.95 3761616.41 3.33131 495285.95
3761616.41 3.19959
495305.95 3761616.41 3.07605 495325.95
3761616.41 2.96041
495345.95 3761616.41 2.85153 495365.95
3761616.41 2.74774
495385.95 3761616.41 2.64582 495405.95
3761616.41 2.55000
495425.95 3761616.41 2.46178 495445.95
3761616.41 2.38353
495465.95 3761616.41 2.30326 495485.95
3761616.41 2.22611
495505.95 3761616.41 2.14976 495525.95

3761616.41   2.07361
         494845.95   3761636.41   9.49959   494865.95
3761636.41   8.87928
         494885.95   3761636.41   8.31890   494905.95
3761636.41   7.82045
         494925.95   3761636.41   7.36097   494945.95
3761636.41   6.93431
         494965.95   3761636.41   6.54408   494985.95
3761636.41   6.19544
         495005.95   3761636.41   5.87160   495025.95
3761636.41   5.56927
         495045.95   3761636.41   5.28704   495065.95
3761636.41   5.02725
         495085.95   3761636.41   4.79671   495105.95
3761636.41   4.57588
         495125.95   3761636.41   4.36422   495145.95
3761636.41   4.16450
         495165.95   3761636.41   3.98010   495185.95
3761636.41   3.80787
         495205.95   3761636.41   3.64734   495225.95
3761636.41   3.49693
         495245.95   3761636.41   3.35483   495265.95
3761636.41   3.22105
         495285.95   3761636.41   3.09561   495305.95
3761636.41   2.97853
         495325.95   3761636.41   2.86922   495345.95
3761636.41   2.76621

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: REFUELIN ***
                                 INCLUDING SOURCE(S):   VOL1   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         495365.95   3761636.41   2.66813   495385.95

3761636.41 2.57237
495405.95 3761636.41 2.47789 495425.95
3761636.41 2.38784
495445.95 3761636.41 2.30758 495465.95
3761636.41 2.23457
495485.95 3761636.41 2.16202 495505.95
3761636.41 2.08875
495525.95 3761636.41 2.01597 494845.95
3761656.41 8.86139
494865.95 3761656.41 8.30004 494885.95
3761656.41 7.79405
494905.95 3761656.41 7.34645 494925.95
3761656.41 6.92627
494945.95 3761656.41 6.53449 494965.95
3761656.41 6.17761
494985.95 3761656.41 5.86109 495005.95
3761656.41 5.56344
495025.95 3761656.41 5.28572 495045.95
3761656.41 5.02511
495065.95 3761656.41 4.78438 495085.95
3761656.41 4.57138
495105.95 3761656.41 4.36614 495125.95
3761656.41 4.16697
495145.95 3761656.41 3.97894 495165.95
3761656.41 3.80694
495185.95 3761656.41 3.64621 495205.95
3761656.41 3.49675
495225.95 3761656.41 3.35655 495245.95
3761656.41 3.22422
495265.95 3761656.41 3.09948 495285.95
3761656.41 2.98077
495305.95 3761656.41 2.86995 495325.95
3761656.41 2.76614
495345.95 3761656.41 2.66850 495365.95
3761656.41 2.57743
495385.95 3761656.41 2.48873 495405.95
3761656.41 2.39868
495425.95 3761656.41 2.30950 495445.95
3761656.41 2.22591
495465.95 3761656.41 2.15809 495485.95
3761656.41 2.09040
495505.95 3761656.41 2.02138 495525.95
3761656.41 1.95337
494845.95 3761676.41 8.22226 494865.95
3761676.41 7.71673
494885.95 3761676.41 7.26233 494905.95
3761676.41 6.86262
494925.95 3761676.41 6.47868 494945.95
3761676.41 6.12113
494965.95 3761676.41 5.79705 494985.95

3761676.41   5.51081
         495005.95   3761676.41   5.23946   495025.95
3761676.41   4.98313
         495045.95   3761676.41   4.74401   495065.95
3761676.41   4.52403
         495085.95   3761676.41   4.33102   495105.95
3761676.41   4.14204
         495125.95   3761676.41   3.95895   495145.95
3761676.41   3.78621
         495165.95   3761676.41   3.62697   495185.95
3761676.41   3.47891
         495205.95   3761676.41   3.34042   495225.95
3761676.41   3.21073
         495245.95   3761676.41   3.08846   495265.95
3761676.41   2.97237
         495285.95   3761676.41   2.85965   495305.95
3761676.41   2.75343
         495325.95   3761676.41   2.65326   495345.95
3761676.41   2.55900
         495365.95   3761676.41   2.47548   495385.95
3761676.41   2.39434
         495405.95   3761676.41   2.31329   495425.95
3761676.41   2.23023
         495445.95   3761676.41   2.14199   495465.95
3761676.41   2.07463
         495485.95   3761676.41   2.01160   495505.95
3761676.41   1.94921
         495525.95   3761676.41   1.88672   494845.95
3761696.41   7.61913

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: REFUELIN ***
                                  INCLUDING SOURCE(S):   VOL1   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -

- - - -

```
3761716.41        3.38826
         495165.95    3761716.41        3.25644                        495185.95
3761716.41        3.13488
         495205.95    3761716.41        3.01340                        495225.95
3761716.41        2.89569
         495245.95    3761716.41        2.78728                        495265.95
3761716.41        2.69571
         495285.95    3761716.41        2.60400                        495305.95
3761716.41        2.51178
         495325.95    3761716.41        2.42411                        495345.95
3761716.41        2.34310
         495365.95    3761716.41        2.26224                        495385.95
3761716.41        2.18851
         495405.95    3761716.41        2.12049                        495425.95
3761716.41        2.05458
         495445.95    3761716.41        1.98485                        495465.95
3761716.41        1.90703
         495485.95    3761716.41        1.84687                        495505.95
3761716.41        1.79566
         495525.95    3761716.41        1.74657                        495545.95
3761716.41        1.69878
         494845.95    3761736.41        6.59221                        494865.95
3761736.41        6.22230
         494885.95    3761736.41        5.89250                        494905.95
3761736.41        5.59350
         494925.95    3761736.41        5.29889                        494945.95
3761736.41        5.01929
         494965.95    3761736.41        4.76614                        494985.95
3761736.41        4.54682
         495005.95    3761736.41        4.33169                        495025.95
3761736.41        4.12473
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                      ***        08:18:30

                                 PAGE  94
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: REFUELIN ***
                                 INCLUDING SOURCE(S):     VOL1        ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                 ** CONC OF VARIOUS  IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
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Y-COORD (M) CONC

- - - -

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3761756.41        2.42123
         495285.95    3761756.41        2.34482                       495305.95
3761756.41        2.26759
         495325.95    3761756.41        2.19433                       495345.95
3761756.41        2.12693
         495365.95    3761756.41        2.05682                       495385.95
3761756.41        1.98896
         495405.95    3761756.41        1.92802                       495425.95
3761756.41        1.87291
         495445.95    3761756.41        1.81839                       495465.95
3761756.41        1.75697
         495485.95    3761756.41        1.70377                       495505.95
3761756.41        1.65626
         495525.95    3761756.41        1.61186                       495545.95
3761756.41        1.56681
         495565.95    3761756.41        1.52487                       494845.95
3761776.41        5.80114
         494865.95    3761776.41        5.49644                       494885.95
3761776.41        5.21709
         494905.95    3761776.41        4.95640                       494925.95
3761776.41        4.70779
         494945.95    3761776.41        4.47319                       494965.95
3761776.41        4.25590
         494985.95    3761776.41        4.05806                       495005.95
3761776.41        3.86923
         495025.95    3761776.41        3.69342                       495045.95
3761776.41        3.53008
         495065.95    3761776.41        3.37925                       495085.95
3761776.41        3.24026
         495105.95    3761776.41        3.10343                       495125.95
3761776.41        2.97369
         495145.95    3761776.41        2.85296                       495165.95
3761776.41        2.74184
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                      ***       08:18:30

                                PAGE  95
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                             *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: REFUELIN ***
                                 INCLUDING SOURCE(S):     VOL1        ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF VARIOUS  IN MICROGRAMS/M**3
                  **
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X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
495185.95	3761776.41	2.64782	495205.95	3761776.41	2.55738
495225.95	3761776.41	2.46630	495245.95	3761776.41	2.37763
495265.95	3761776.41	2.30313	495285.95	3761776.41	2.22860
495305.95	3761776.41	2.15564	495325.95	3761776.41	2.08678
495345.95	3761776.41	2.02265	495365.95	3761776.41	1.95837
495385.95	3761776.41	1.89607	495405.95	3761776.41	1.83955
495425.95	3761776.41	1.78733	495445.95	3761776.41	1.73535
495465.95	3761776.41	1.68519	495485.95	3761776.41	1.63727
495505.95	3761776.41	1.59212	495525.95	3761776.41	1.54891
495545.95	3761776.41	1.50507	495565.95	3761776.41	1.46090
494845.95	3761796.41	5.43494	494865.95	3761796.41	5.15411
494885.95	3761796.41	4.89918	494905.95	3761796.41	4.66076
494925.95	3761796.41	4.43365	494945.95	3761796.41	4.22012
494965.95	3761796.41	4.01974	494985.95	3761796.41	3.83383
495005.95	3761796.41	3.65841	495025.95	3761796.41	3.49588
495045.95	3761796.41	3.34340	495065.95	3761796.41	3.20068
495085.95	3761796.41	3.06749	495105.95	3761796.41	2.94002
495125.95	3761796.41	2.81844	495145.95	3761796.41	2.70524
495165.95	3761796.41	2.60154	495185.95	3761796.41	2.51302
495205.95	3761796.41	2.43022	495225.95	3761796.41	2.34754
495245.95	3761796.41	2.26599	495265.95	3761796.41	2.19295
495285.95	3761796.41	2.12274	495305.95	3761796.41	2.05455
495325.95	3761796.41	1.98861	495345.95		

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3761796.41        1.92575
         495365.95    3761796.41        1.86633                        495385.95
3761796.41        1.80953
         495405.95    3761796.41        1.75654                        495425.95
3761796.41        1.70636
         495445.95    3761796.41        1.65794                        495465.95
3761796.41        1.61144
         495485.95    3761796.41        1.56678                        495505.95
3761796.41        1.52383
         495525.95    3761796.41        1.48254                        495545.95
3761796.41        1.44211
         495565.95    3761796.41        1.40020                        494965.95
3761816.41        3.80656
         494985.95    3761816.41        3.63334                        495005.95
3761816.41        3.47130
         495025.95    3761816.41        3.32013                        495045.95
3761816.41        3.17788
         495065.95    3761816.41        3.04379                        495085.95
3761816.41        2.91735
         495105.95    3761816.41        2.79646                        495125.95
3761816.41        2.68189
         495145.95    3761816.41        2.57551                        495165.95
3761816.41        2.47848
         495185.95    3761816.41        2.39380                        495205.95
3761816.41        2.31373
         495225.95    3761816.41        2.23411                        495245.95
3761816.41        2.15663
         495265.95    3761816.41        2.08629                        495285.95
3761816.41        2.01970
         495305.95    3761816.41        1.95592                        495325.95
3761816.41        1.89415
         495345.95    3761816.41        1.83403                        495365.95
3761816.41        1.77723
         495385.95    3761816.41        1.72463                        495405.95
3761816.41        1.67538
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                      ***       08:18:30

                                PAGE  96
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: REFUELIN ***
                                INCLUDING SOURCE(S):     VOL1        ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***
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** CONC OF VARIOUS IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
495425.95	3761816.41	1.62848	495445.95	3761816.41	1.58320
495465.95	3761816.41	1.53948	495485.95	3761816.41	1.49702
495505.95	3761816.41	1.45575	495525.95	3761816.41	1.41567
495545.95	3761816.41	1.37688	495565.95	3761816.41	1.33785
495125.95	3761836.41	2.56026	495145.95	3761836.41	2.45991
495165.95	3761836.41	2.36918	495185.95	3761836.41	2.28839
495205.95	3761836.41	2.20872	495225.95	3761836.41	2.12996
495365.95	3761836.41	1.69483	495385.95	3761836.41	1.64572
495405.95	3761836.41	1.60009	495425.95	3761836.41	1.55683
495445.95	3761836.41	1.51451	495465.95	3761836.41	1.47267
495485.95	3761836.41	1.43181	495505.95	3761836.41	1.39190
495525.95	3761836.41	1.35271	495545.95	3761836.41	1.31418
495565.95	3761836.41	1.27753	495125.95	3761856.41	2.45086
495145.95	3761856.41	2.35470	495165.95	3761856.41	2.26805
495185.95	3761856.41	2.19397	495205.95	3761856.41	2.11629
495225.95	3761856.41	2.03944	495385.95	3761856.41	1.57902
495405.95	3761856.41	1.53773	495425.95	3761856.41	1.49678
495445.95	3761856.41	1.45644	495465.95	3761856.41	1.41533
495485.95	3761856.41	1.37612	495505.95	3761856.41	1.33758
495525.95	3761856.41	1.29869	495545.95	3761856.41	1.25905
495565.95	3761856.41	1.22057	495125.95	3761876.41	2.35124
495145.95	3761876.41	2.25974	495165.95		

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3761876.41        2.17636
         495185.95    3761876.41        2.10614                        495205.95
3761876.41        2.03141
         495225.95    3761876.41        1.95804                        495385.95
3761876.41        1.52079
         495405.95    3761876.41        1.48246                        495425.95
3761876.41        1.44310
         495445.95    3761876.41        1.40428                        495465.95
3761876.41        1.36489
         495485.95    3761876.41        1.32753                        495505.95
3761876.41        1.29055
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3761876.41        1.21307
         495565.95    3761876.41        1.17337                        495125.95
3761896.41        2.25872
         495145.95    3761896.41        2.17269                        495165.95
3761896.41        2.09222
         495185.95    3761896.41        2.02364                        495205.95
3761896.41        1.95203
         495225.95    3761896.41        1.88362                        495385.95
3761896.41        1.46901
         495405.95    3761896.41        1.43325                        495425.95
3761896.41        1.39514
         495445.95    3761896.41        1.35705                        495465.95
3761896.41        1.32019
         495485.95    3761896.41        1.28453                        495505.95
3761896.41        1.24938
         495525.95    3761896.41        1.21318                        495545.95
3761896.41        1.17388
         495565.95    3761896.41        1.13404                        495585.95
3761896.41        1.10232
         495125.95    3761916.41        2.17352                        495145.95
3761916.41        2.09390
         495165.95    3761916.41        2.01778                        495185.95
3761916.41        1.95299
         495205.95    3761916.41        1.88321                        495225.95
3761916.41        1.81917
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                       ***        08:18:30

                                  PAGE  97
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: REFUELIN ***
                                  INCLUDING SOURCE(S):     VOL1        ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
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***

** CONC OF VARIOUS IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
495385.95	3761916.41	1.41797	495405.95	3761916.41	1.38271
495425.95	3761916.41	1.34675	495445.95	3761916.41	1.31048
495465.95	3761916.41	1.27510	495485.95	3761916.41	1.24081
495505.95	3761916.41	1.20616	495525.95	3761916.41	1.17009
495545.95	3761916.41	1.13273	495565.95	3761916.41	1.09552
495585.95	3761916.41	1.06557	495125.95	3761936.41	2.09058
495145.95	3761936.41	2.01714	495165.95	3761936.41	1.94602
495185.95	3761936.41	1.88534	495205.95	3761936.41	1.81918
495225.95	3761936.41	1.75910	495145.95	3761956.41	1.94136
495165.95	3761956.41	1.87577	495185.95	3761956.41	1.82049
495205.95	3761956.41	1.75915	495225.95	3761956.41	1.70253
495145.95	3761976.41	1.86933	495165.95	3761976.41	1.80772
495185.95	3761976.41	1.75577	495205.95	3761976.41	1.69843
495225.95	3761976.41	1.64490	495145.95	3761996.41	1.79897
495165.95	3761996.41	1.74166	495185.95	3761996.41	1.69204
495205.95	3761996.41	1.63843	495225.95	3761996.41	1.58813
495145.95	3762016.41	1.73064	495165.95	3762016.41	1.67753
495185.95	3762016.41	1.62954	495205.95	3762016.41	1.57902
495225.95	3762016.41	1.53140	495145.95	3762036.41	1.66576
495165.95	3762036.41	1.61564	495185.95	3762036.41	1.56859
495205.95	3762036.41	1.52050	495225.95		

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3762036.41        1.47561
         495145.95    3762056.41        1.60527                        495165.95
3762056.41        1.55730
         495185.95    3762056.41        1.51114                        495205.95
3762056.41        1.46506
         495225.95    3762056.41        1.42250                        494031.10
3761757.45        7.25146
         494022.49    3761743.26        7.23135                        494020.46
3761734.14        7.29942
         494013.36    3761724.00        7.24458                        494002.72
3761712.34        7.09575
         493991.57    3761703.22        6.88613                        493980.42
3761692.58        6.68991
         493969.78    3761686.49        6.47104                        493957.61
3761681.43        6.21860
         493943.93    3761673.82        5.94657                        493926.19
3761672.81        5.59323
         493913.51    3761671.29        5.36166                        493899.83
3761669.77        5.12872
         493832.42    3761639.36        4.19359                        493822.79
3761647.47        4.07258
         493811.13    3761658.11        3.93046                        493809.61
3761669.26        3.90335
         493817.72    3761682.44        3.97755                        493833.43
3761689.53        4.14826
         493853.71    3761695.11        4.38867                        493871.45
3761693.08        4.63452
         493888.17    3761693.08        4.88041                        493905.91
3761693.59        5.16184
         493920.61    3761694.60        5.41190                        493939.36
3761698.15        5.74654
         493959.64    3761706.77        6.11052                        493975.35
3761717.41        6.37486
         493983.46    3761726.03        6.48093                        493991.06
3761738.19        6.53010
         494001.20    3761754.41        6.57611                        493984.47
3761753.40        6.22236
         493980.42    3761746.81        6.20575                        493970.79
3761734.64        6.12136
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                      ***       08:18:30

                                  PAGE  98
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: REFUELIN ***
                                  INCLUDING SOURCE(S):     VOL1        ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
493953.56	3761728.06	5.82832	493937.34	3761717.41	5.59470
493921.12	3761715.38	5.31770	493906.93	3761711.33	5.10263
493887.16	3761711.33	4.79795	493870.43	3761711.33	4.56119
493857.76	3761710.82	4.39526	493843.06	3761709.81	4.21476
493829.38	3761709.81	4.05409	493806.57	3761701.19	3.82335
493799.47	3761683.96	3.77659	493797.45	3761663.18	3.77694
493779.71	3761668.25	3.59198	493775.14	3761687.51	3.52811
493782.75	3761700.18	3.58322	493793.39	3761716.90	3.65469
493809.10	3761730.59	3.77532	493821.27	3761732.11	3.89661
493843.57	3761730.59	4.15021	493874.99	3761733.63	4.52817
493883.61	3761733.12	4.64721	493904.90	3761734.64	4.94643
493928.72	3761736.17	5.31766	493941.39	3761745.80	5.46572
493954.06	3761758.47	5.58616	493931.76	3761757.45	5.21720
493915.54	3761754.92	4.98223	493903.38	3761754.41	4.80682
493888.68	3761754.41	4.60253	493872.97	3761753.91	4.40010
493851.68	3761754.41	4.13958	493835.46	3761751.88	3.96978
493818.73	3761751.37	3.79688	493742.20	3761651.01	3.24470
493742.20	3761665.21	3.23531	493742.20	3761680.41	3.22152
493746.25	3761695.11	3.24356	493750.31	3761708.80	3.26278
493754.87	3761721.47	3.28686	493757.91		

3761732.62   3.29394
         493772.10   3761750.36   3.36812   493760.44
3761749.34   3.27433
         493749.29   3761748.84   3.18660   493730.54
3761748.84   3.04355
         493705.70   3761747.32   2.86896   493712.80
3761770.63   2.85157
         493739.66   3761767.59   3.05280   493757.40
3761769.11   3.18303
         493780.21   3761771.14   3.36032   493801.50
3761770.12   3.54927
         493830.90   3761773.17   3.81563   493850.66
3761773.67   4.02679
         493872.46   3761773.67   4.28399   493893.75
3761776.71   4.53646
         493908.45   3761775.70   4.74178   493926.19
3761779.75   4.96549
         493937.84   3761778.74   5.14841   493952.54
3761780.26   5.36922
         493967.75   3761779.75   5.63170   493975.35
3761783.81   5.72591
         493989.54   3761780.26   6.02830   494000.19
3761781.78   6.22174
         494014.88   3761785.33   6.48230   494027.05
3761785.84   6.74205
         494049.35   3761786.34   7.26048   494066.08
3761786.34   7.69288
         494171.35   3761821.06   10.12968   494176.48
3761840.83   9.56818
         494171.35   3761886.24   7.97841   494831.53
3761814.80   5.34402
         494846.31   3761570.20   10.93929   494859.75
3761515.10   10.23165
         494839.59   3761451.93   9.43305   494863.63
3761459.20   9.00073
         494887.97   3761461.34   8.44672   494935.78
3761472.98   7.56882
         494961.89   3761422.37   6.38574   494996.53
3761368.08   5.18562
         494991.46   3761326.95   4.72779   495039.84
3761351.14   4.63848

VALUES FOR SOURCE GROUP: REFUELIN ***
INCLUDING SOURCE(S): VOL1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
495133.92	3761336.35	3.31187	495229.34	3761325.60	2.96200
495414.80	3761335.01	2.41104	495539.79	3761406.24	2.14516
495545.17	3761697.88	1.76422	495576.08	3761783.89	1.41714
495589.52	3761934.41	1.03294	495387.93	3761934.41	1.37336
495359.70	3761828.24	1.74446	495237.40	3761820.18	2.16864
495237.40	3762072.84	1.35878	495127.20	3762068.81	1.61559
495124.51	3761818.83	2.67481			

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION ***
VALUES FOR SOURCE GROUP: LOADING
INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
495005.95	3761336.41	5.02890	495145.95		

```
3761336.41        3.38129
         495165.95    3761336.41        3.62782                    495185.95
3761336.41        3.53590
         495205.95    3761336.41        3.43341                    495225.95
3761336.41        3.32633
         495245.95    3761336.41        3.22253                    495265.95
3761336.41        3.13625
         495285.95    3761336.41        3.10465                    495305.95
3761336.41        2.98968
         495325.95    3761336.41        2.87097                    495345.95
3761336.41        2.77847
         495365.95    3761336.41        2.66783                    495385.95
3761336.41        2.57473
         495405.95    3761336.41        2.49867                    495005.95
3761356.41        5.28409
         495025.95    3761356.41        5.07871                    495045.95
3761356.41        4.88426
         495065.95    3761356.41        4.69465                    495085.95
3761356.41        4.43796
         495105.95    3761356.41        4.20214                    495125.95
3761356.41        4.04386
         495145.95    3761356.41        3.92873                    495165.95
3761356.41        3.81479
         495185.95    3761356.41        3.69536                    495205.95
3761356.41        3.57764
         495225.95    3761356.41        3.47054                    495245.95
3761356.41        3.37220
         495265.95    3761356.41        3.27697                    495285.95
3761356.41        3.18322
         495305.95    3761356.41        3.05280                    495325.95
3761356.41        2.93754
         495345.95    3761356.41        2.84307                    495365.95
3761356.41        2.73555
         495385.95    3761356.41        2.63824                    495405.95
3761356.41        2.55039
         495425.95    3761356.41        2.46776                    495445.95
3761356.41        2.38187
         495005.95    3761376.41        5.53979                    495025.95
3761376.41        5.31122
         495045.95    3761376.41        5.09465                    495065.95
3761376.41        4.89283
         495085.95    3761376.41        4.69660                    495105.95
3761376.41        4.47799
         495125.95    3761376.41        4.29307                    495145.95
3761376.41        4.14036
         495165.95    3761376.41        3.99199                    495185.95
3761376.41        3.84830
         495205.95    3761376.41        3.71680                    495225.95
3761376.41        3.60467
         495245.95    3761376.41        3.49551                    495265.95
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3761376.41   3.38118
         495285.95   3761376.41   3.24634   495305.95
3761376.41   3.11396
         495325.95   3761376.41   3.00235   495345.95
3761376.41   2.90248
         495365.95   3761376.41   2.79940   495385.95
3761376.41   2.69927
         495405.95   3761376.41   2.60356   495425.95
3761376.41   2.50885
         495445.95   3761376.41   2.40868   495465.95
3761376.41   2.32255
         495485.95   3761376.41   2.25627   494985.95
3761396.41   6.06037
         495005.95   3761396.41   5.79346   495025.95
3761396.41   5.54077
         495045.95   3761396.41   5.30220   495065.95
3761396.41   5.07899
         495085.95   3761396.41   4.87719   495105.95
3761396.41   4.67177
         495125.95   3761396.41   4.48091   495145.95
3761396.41   4.31205
         495165.95   3761396.41   4.14994   495185.95
3761396.41   3.99428
         495205.95   3761396.41   3.85007   495225.95
3761396.41   3.71871
         495245.95   3761396.41   3.58234   495265.95
3761396.41   3.44779
         495285.95   3761396.41   3.30976   495305.95
3761396.41   3.18213

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING ***
                                  INCLUDING SOURCE(S):   STCK1   ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -

- -

495325.95	3761396.41	3.06295	495345.95	3761396.41	2.94824
495365.95	3761396.41	2.84295	495385.95	3761396.41	2.74175
495405.95	3761396.41	2.64383	495425.95	3761396.41	2.54698
495445.95	3761396.41	2.44760	495465.95	3761396.41	2.36262
495485.95	3761396.41	2.29036	495505.95	3761396.41	2.23735
494965.95	3761416.41	6.65211	494985.95	3761416.41	6.33555
495005.95	3761416.41	6.03941	495025.95	3761416.41	5.76287
495045.95	3761416.41	5.50249	495065.95	3761416.41	5.25765
495085.95	3761416.41	5.03537	495105.95	3761416.41	4.83361
495125.95	3761416.41	4.63622	495145.95	3761416.41	4.45018
495165.95	3761416.41	4.27518	495185.95	3761416.41	4.11045
495205.95	3761416.41	3.95555	495225.95	3761416.41	3.80575
495245.95	3761416.41	3.65029	495265.95	3761416.41	3.50916
495285.95	3761416.41	3.37490	495305.95	3761416.41	3.24643
495325.95	3761416.41	3.11582	495345.95	3761416.41	2.98025
495365.95	3761416.41	2.87244	495385.95	3761416.41	2.77211
495405.95	3761416.41	2.67512	495425.95	3761416.41	2.57977
495445.95	3761416.41	2.48537	495465.95	3761416.41	2.40103
495485.95	3761416.41	2.32494	495505.95	3761416.41	2.25891
495525.95	3761416.41	2.20435	494965.95	3761436.41	6.94564
494985.95	3761436.41	6.59580	495005.95	3761436.41	6.27272
495025.95	3761436.41	5.97253	495045.95	3761436.41	5.69059
495065.95	3761436.41	5.42476	495085.95	3761436.41	5.17758
495105.95	3761436.41	4.95675	495125.95	3761436.41	4.75355
495145.95	3761436.41	4.56192	495165.95		

3761436.41   4.37937
         495185.95   3761436.41   4.20561   495205.95
3761436.41   4.04075
         495225.95   3761436.41   3.87677   495245.95
3761436.41   3.71107
         495265.95   3761436.41   3.57059   495285.95
3761436.41   3.43587
         495305.95   3761436.41   3.30281   495325.95
3761436.41   3.15994
         495345.95   3761436.41   3.00212   495365.95
3761436.41   2.89259
         495385.95   3761436.41   2.79469   495405.95
3761436.41   2.69990
         495425.95   3761436.41   2.60703   495445.95
3761436.41   2.51719
         495465.95   3761436.41   2.43424   495485.95
3761436.41   2.35572
         495505.95   3761436.41   2.28185   495525.95
3761436.41   2.21345
         494845.95   3761456.41   10.28352   494945.95
3761456.41   7.63154
         494965.95   3761456.41   7.21743   494985.95
3761456.41   6.83561
         495005.95   3761456.41   6.48703   495025.95
3761456.41   6.16243
         495045.95   3761456.41   5.85824   495065.95
3761456.41   5.57368
         495085.95   3761456.41   5.31259   495105.95
3761456.41   5.07095
         495125.95   3761456.41   4.85092   495145.95
3761456.41   4.64915

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING ***
                                 INCLUDING SOURCE(S):   STCK1   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)

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Y-COORD (M)        CONC
 - - -
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3761476.41   2.64724
         495445.95   3761476.41   2.54008   495465.95
3761476.41   2.46339
         495485.95   3761476.41   2.38807   495505.95
3761476.41   2.31100
         495525.95   3761476.41   2.23288   494865.95
3761496.41   10.57270
         494885.95   3761496.41   9.87090   494905.95
3761496.41   9.23562
         494925.95   3761496.41   8.65963   494945.95
3761496.41   8.13540
         494965.95   3761496.41   7.65693   494985.95
3761496.41   7.22006
         495005.95   3761496.41   6.82547   495025.95
3761496.41   6.45724
         495045.95   3761496.41   6.11428   495065.95
3761496.41   5.79640
         495085.95   3761496.41   5.50579   495105.95
3761496.41   5.24245
         495125.95   3761496.41   4.99707   495145.95
3761496.41   4.77006
         495165.95   3761496.41   4.56137   495185.95
3761496.41   4.35659
         495205.95   3761496.41   4.16549   495225.95
3761496.41   3.98561
         495245.95   3761496.41   3.81814   495265.95
3761496.41   3.66739
         495285.95   3761496.41   3.51933   495305.95
3761496.41   3.37384
         495325.95   3761496.41   3.22610   495345.95
3761496.41   3.07883
         495365.95   3761496.41   2.97457   495385.95
3761496.41   2.87165

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                             *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING ***
                                 INCLUDING SOURCE(S):   STCK1   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
495405.95	3761496.41	2.76719	495425.95	3761496.41	2.65824
495445.95	3761496.41	2.54213	495465.95	3761496.41	2.46676
495485.95	3761496.41	2.39261	495505.95	3761496.41	2.31562
495525.95	3761496.41	2.23586	494865.95	3761516.41	10.90400
494885.95	3761516.41	10.14651	494905.95	3761516.41	9.46899
494925.95	3761516.41	8.85652	494945.95	3761516.41	8.30051
494965.95	3761516.41	7.79555	494985.95	3761516.41	7.33700
495005.95	3761516.41	6.92909	495025.95	3761516.41	6.54660
495045.95	3761516.41	6.18951	495065.95	3761516.41	5.85761
495085.95	3761516.41	5.55662	495105.95	3761516.41	5.28575
495125.95	3761516.41	5.03367	495145.95	3761516.41	4.79977
495165.95	3761516.41	4.58413	495185.95	3761516.41	4.37781
495205.95	3761516.41	4.18445	495225.95	3761516.41	4.00272
495245.95	3761516.41	3.83245	495265.95	3761516.41	3.67501
495285.95	3761516.41	3.52315	495305.95	3761516.41	3.37654
495325.95	3761516.41	3.23414	495345.95	3761516.41	3.09747
495365.95	3761516.41	2.98648	495385.95	3761516.41	2.87883
495405.95	3761516.41	2.77077	495425.95	3761516.41	2.65888
495445.95	3761516.41	2.54005	495465.95	3761516.41	2.46393
495485.95	3761516.41	2.38986	495505.95	3761516.41	2.31289
495525.95	3761516.41	2.23241	494865.95	3761536.41	11.11136
494885.95	3761536.41	10.31392	494905.95	3761536.41	9.60767
494925.95	3761536.41	8.96932	494945.95		

3761536.41   8.39114
         494965.95   3761536.41   7.86751   494985.95
3761536.41   7.39534
         495005.95   3761536.41   6.97759   495025.95
3761536.41   6.58533
         495045.95   3761536.41   6.21799   495065.95
3761536.41   5.87692
         495085.95   3761536.41   5.57150   495105.95
3761536.41   5.29482
         495125.95   3761536.41   5.03693   495145.95
3761536.41   4.79758
         495165.95   3761536.41   4.57740   495185.95
3761536.41   4.37076
         495205.95   3761536.41   4.17627   495225.95
3761536.41   3.99369
         495245.95   3761536.41   3.82286   495265.95
3761536.41   3.66335
         495285.95   3761536.41   3.51073   495305.95
3761536.41   3.36548
         495325.95   3761536.41   3.22749   495345.95
3761536.41   3.09756
         495365.95   3761536.41   2.98157   495385.95
3761536.41   2.87094
         495405.95   3761536.41   2.76169   495425.95
3761536.41   2.65084
         495445.95   3761536.41   2.53477   495465.95
3761536.41   2.45385
         495485.95   3761536.41   2.37825   495505.95
3761536.41   2.30082
         495525.95   3761536.41   2.22009   494865.95
3761556.41   11.17448
         494885.95   3761556.41   10.35599   494905.95
3761556.41   9.63655
         494925.95   3761556.41   8.98596   494945.95
3761556.41   8.39702

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING ***
                                INCLUDING SOURCE(S):   STCK1   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF VARIOUS IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
494965.95	3761556.41	7.86545	494985.95	3761556.41	7.38789
495005.95	3761556.41	6.96450	495025.95	3761556.41	6.56690
495045.95	3761556.41	6.19413	495065.95	3761556.41	5.84988
495085.95	3761556.41	5.54723	495105.95	3761556.41	5.26630
495125.95	3761556.41	5.00368	495145.95	3761556.41	4.76089
495165.95	3761556.41	4.53927	495185.95	3761556.41	4.33222
495205.95	3761556.41	4.13868	495225.95	3761556.41	3.95741
495245.95	3761556.41	3.78826	495265.95	3761556.41	3.63058
495285.95	3761556.41	3.48088	495305.95	3761556.41	3.33970
495325.95	3761556.41	3.20600	495345.95	3761556.41	3.07943
495365.95	3761556.41	2.95944	495385.95	3761556.41	2.84762
495405.95	3761556.41	2.73998	495425.95	3761556.41	2.63345
495445.95	3761556.41	2.52505	495465.95	3761556.41	2.43650
495485.95	3761556.41	2.35748	495505.95	3761556.41	2.27961
495525.95	3761556.41	2.19891	494845.95	3761576.41	12.00451
494865.95	3761576.41	11.08151	494885.95	3761576.41	10.26391
494905.95	3761576.41	9.54772	494925.95	3761576.41	8.89941
494945.95	3761576.41	8.31171	494965.95	3761576.41	7.78182
494985.95	3761576.41	7.30850	495005.95	3761576.41	6.88480
495025.95	3761576.41	6.48841	495045.95	3761576.41	6.11851
495065.95	3761576.41	5.77923	495085.95	3761576.41	5.48402
495105.95	3761576.41	5.20558	495125.95		

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3761576.41        4.94316
         495145.95    3761576.41        4.69980                        495165.95
3761576.41        4.47548
         495185.95    3761576.41        4.26653                        495205.95
3761576.41        4.07150
         495225.95    3761576.41        3.88983                        495245.95
3761576.41        3.72008
         495265.95    3761576.41        3.56296                        495285.95
3761576.41        3.41568
         495305.95    3761576.41        3.27902                        495325.95
3761576.41        3.15054
         495345.95    3761576.41        3.02864                        495365.95
3761576.41        2.91163
         495385.95    3761576.41        2.80240                        495405.95
3761576.41        2.69978
         495425.95    3761576.41        2.60111                        495445.95
3761576.41        2.50079
         495465.95    3761576.41        2.41136                        495485.95
3761576.41        2.32994
         495505.95    3761576.41        2.24955                        495525.95
3761576.41        2.16836
         494845.95    3761596.41       11.73082                        494865.95
3761596.41       10.83252
         494885.95    3761596.41       10.03595                        494905.95
3761596.41        9.34164
         494925.95    3761596.41        8.71108                        494945.95
3761596.41        8.13695
         494965.95    3761596.41        7.61887                        494985.95
3761596.41        7.15901
         495005.95    3761596.41        6.74221                        495025.95
3761596.41        6.35375
         495045.95    3761596.41        5.99250                        495065.95
3761596.41        5.66374
         495085.95    3761596.41        5.37920                        495105.95
3761596.41        5.10661
         495125.95    3761596.41        4.84967                        495145.95
3761596.41        4.60962
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                       ***        08:18:30

                                  PAGE 105
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING  ***
                                  INCLUDING SOURCE(S):     STCK1       ,

                                           *** DISCRETE CARTESIAN RECEPTOR POINTS
```

***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
495165.95	3761596.41	4.38756	495185.95	3761596.41	4.18096
495205.95	3761596.41	3.98878	495225.95	3761596.41	3.80944
495245.95	3761596.41	3.64220	495265.95	3761596.41	3.48674
495285.95	3761596.41	3.34270	495305.95	3761596.41	3.20989
495325.95	3761596.41	3.08533	495345.95	3761596.41	2.96744
495365.95	3761596.41	2.85410	495385.95	3761596.41	2.74651
495405.95	3761596.41	2.64672	495425.95	3761596.41	2.55318
495445.95	3761596.41	2.46182	495465.95	3761596.41	2.37388
495485.95	3761596.41	2.29175	495505.95	3761596.41	2.21118
495525.95	3761596.41	2.13051	494845.95	3761616.41	11.29428
494865.95	3761616.41	10.44193	494885.95	3761616.41	9.68576
494905.95	3761616.41	9.03007	494925.95	3761616.41	8.43224
494945.95	3761616.41	7.88229	494965.95	3761616.41	7.38496
494985.95	3761616.41	6.94569	495005.95	3761616.41	6.54344
495025.95	3761616.41	6.16857	495045.95	3761616.41	5.82244
495065.95	3761616.41	5.50824	495085.95	3761616.41	5.23580
495105.95	3761616.41	4.97335	495125.95	3761616.41	4.72623
495145.95	3761616.41	4.49506	495165.95	3761616.41	4.27991
495185.95	3761616.41	4.08131	495205.95	3761616.41	3.89573
495225.95	3761616.41	3.72286	495245.95	3761616.41	3.56083
495265.95	3761616.41	3.40830	495285.95		

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3761616.41        3.26769
         495305.95    3761616.41        3.13627                        495325.95
3761616.41        3.01371
         495345.95    3761616.41        2.89862                        495365.95
3761616.41        2.78912
         495385.95    3761616.41        2.68172                        495405.95
3761616.41        2.58115
         495425.95    3761616.41        2.48897                        495445.95
3761616.41        2.40761
         495465.95    3761616.41        2.32408                        495485.95
3761616.41        2.24400
         495505.95    3761616.41        2.16480                        495525.95
3761616.41        2.08590
         494845.95    3761636.41       10.73044                        494865.95
3761636.41        9.93904
         494885.95    3761636.41        9.23750                        494905.95
3761636.41        8.63122
         494925.95    3761636.41        8.07139                        494945.95
3761636.41        7.55375
         494965.95    3761636.41        7.08654                        494985.95
3761636.41        6.67665
         495005.95    3761636.41        6.29764                        495025.95
3761636.41        5.94530
         495045.95    3761636.41        5.61815                        495065.95
3761636.41        5.31971
         495085.95    3761636.41        5.05885                        495105.95
3761636.41        4.80894
         495125.95    3761636.41        4.57003                        495145.95
3761636.41        4.34605
         495165.95    3761636.41        4.14091                        495185.95
3761636.41        3.95069
         495205.95    3761636.41        3.77449                        495225.95
3761636.41        3.61027
         495245.95    3761636.41        3.45579                        495265.95
3761636.41        3.31095
         495285.95    3761636.41        3.17566                        495305.95
3761636.41        3.04989
         495325.95    3761636.41        2.93295                        495345.95
3761636.41        2.82304
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                      ***       08:18:30

                                PAGE 106
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING  ***
                                INCLUDING SOURCE(S):     STCK1       ,
```

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
495365.95	3761636.41	2.71865	495385.95	3761636.41	2.61693
495405.95	3761636.41	2.51681	495425.95	3761636.41	2.42177
495445.95	3761636.41	2.33748	495465.95	3761636.41	2.26112
495485.95	3761636.41	2.18533	495505.95	3761636.41	2.10881
495525.95	3761636.41	2.03293	494845.95	3761656.41	10.08103
494865.95	3761656.41	9.36089	494885.95	3761656.41	8.72324
494905.95	3761656.41	8.17197	494925.95	3761656.41	7.65398
494945.95	3761656.41	7.17476	494965.95	3761656.41	6.74363
494985.95	3761656.41	6.36702	495005.95	3761656.41	6.01424
495025.95	3761656.41	5.68694	495045.95	3761656.41	5.38127
495065.95	3761656.41	5.10113	495085.95	3761656.41	4.85646
495105.95	3761656.41	4.62105	495125.95	3761656.41	4.39336
495145.95	3761656.41	4.17986	495165.95	3761656.41	3.98626
495185.95	3761656.41	3.80661	495205.95	3761656.41	3.64056
495225.95	3761656.41	3.48565	495245.95	3761656.41	3.34011
495265.95	3761656.41	3.20347	495285.95	3761656.41	3.07388
495305.95	3761656.41	2.95339	495325.95	3761656.41	2.84098
495345.95	3761656.41	2.73559	495365.95	3761656.41	2.63766
495385.95	3761656.41	2.54257	495405.95	3761656.41	2.44617
495425.95	3761656.41	2.35102	495445.95		

3761656.41 2.26224
  495465.95 3761656.41 2.19070 495485.95
3761656.41 2.11937
  495505.95 3761656.41 2.04673 495525.95
3761656.41 1.97530
  494845.95 3761676.41 9.39121 494865.95
3761676.41 8.74549
  494885.95 3761676.41 8.17347 494905.95
3761676.41 7.67948
  494925.95 3761676.41 7.20455 494945.95
3761676.41 6.76616
  494965.95 3761676.41 6.37294 494985.95
3761676.41 6.02961
  495005.95 3761676.41 5.70542 495025.95
3761676.41 5.40062
  495045.95 3761676.41 5.11769 495065.95
3761676.41 4.85928
  495085.95 3761676.41 4.63494 495105.95
3761676.41 4.41576
  495125.95 3761676.41 4.20438 495145.95
3761676.41 4.00621
  495165.95 3761676.41 3.82486 495185.95
3761676.41 3.65733
  495205.95 3761676.41 3.50151 495225.95
3761676.41 3.35638
  495245.95 3761676.41 3.22020 495265.95
3761676.41 3.09140
  495285.95 3761676.41 2.96673 495305.95
3761676.41 2.84967
  495325.95 3761676.41 2.73972 495345.95
3761676.41 2.63659
  495365.95 3761676.41 2.54574 495385.95
3761676.41 2.45780
  495405.95 3761676.41 2.37018 495425.95
3761676.41 2.28062
  495445.95 3761676.41 2.18576 495465.95
3761676.41 2.11381
  495485.95 3761676.41 2.04673 495505.95
3761676.41 1.98045
  495525.95 3761676.41 1.91422 494845.95
3761696.41 8.70105

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: LOADING ***
                                  INCLUDING SOURCE(S):   STCK1   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                              ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         494865.95   3761696.41   8.12981   494885.95
3761696.41   7.62191
         494905.95   3761696.41   7.18050   494925.95
3761696.41   6.75209
         494945.95   3761696.41   6.35400   494965.95
3761696.41   5.99671
         494985.95   3761696.41   5.68299   495005.95
3761696.41   5.38519
         495025.95   3761696.41   5.10208   495045.95
3761696.41   4.84104
         495065.95   3761696.41   4.60507   495085.95
3761696.41   4.39802
         495105.95   3761696.41   4.19455   495125.95
3761696.41   4.00244
         495145.95   3761696.41   3.82283   495165.95
3761696.41   3.65656
         495185.95   3761696.41   3.50237   495205.95
3761696.41   3.35519
         495225.95   3761696.41   3.21584   495245.95
3761696.41   3.08660
         495265.95   3761696.41   2.96971   495285.95
3761696.41   2.85489
         495305.95   3761696.41   2.74363   495325.95
3761696.41   2.63870
         495345.95   3761696.41   2.54127   495365.95
3761696.41   2.45045
         495385.95   3761696.41   2.36635   495405.95
3761696.41   2.28565
         495425.95   3761696.41   2.20463   495445.95
3761696.41   2.11734
         495465.95   3761696.41   2.03747   495485.95
3761696.41   1.97111
         495505.95   3761696.41   1.91081   495525.95
3761696.41   1.85175
         494845.95   3761716.41   8.04342   494865.95
3761716.41   7.53878
         494885.95   3761716.41   7.09161   494905.95

3761716.41   6.69725
         494925.95   3761716.41   6.31191   494945.95
3761716.41   5.95160
         494965.95   3761716.41   5.62635   494985.95
3761716.41   5.34000
         495005.95   3761716.41   5.06779   495025.95
3761716.41   4.80509
         495045.95   3761716.41   4.56519   495065.95
3761716.41   4.35110
         495085.95   3761716.41   4.15987   495105.95
3761716.41   3.97106
         495125.95   3761716.41   3.79601   495145.95
3761716.41   3.63351
         495165.95   3761716.41   3.48138   495185.95
3761716.41   3.34156
         495205.95   3761716.41   3.20254   495225.95
3761716.41   3.06850
         495245.95   3761716.41   2.94540   495265.95
3761716.41   2.84146
         495285.95   3761716.41   2.73777   495305.95
3761716.41   2.63385
         495325.95   3761716.41   2.53541   495345.95
3761716.41   2.44468
         495365.95   3761716.41   2.35451   495385.95
3761716.41   2.27261
         495405.95   3761716.41   2.19736   495425.95
3761716.41   2.12465
         495445.95   3761716.41   2.04809   495465.95
3761716.41   1.96303
         495485.95   3761716.41   1.89735   495505.95
3761716.41   1.84160
         495525.95   3761716.41   1.78834   495545.95
3761716.41   1.73669
         494845.95   3761736.41   7.43644   494865.95
3761736.41   6.99342
         494885.95   3761736.41   6.60181   494905.95
3761736.41   6.24866
         494925.95   3761736.41   5.89957   494945.95
3761736.41   5.56964
         494965.95   3761736.41   5.27238   494985.95
3761736.41   5.01604
         495005.95   3761736.41   4.76460   495025.95
3761736.41   4.52253

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING ***
INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
495045.95	3761736.41	4.30277	495065.95	3761736.41	4.10701
495085.95	3761736.41	3.93006	495105.95	3761736.41	3.75531
495125.95	3761736.41	3.59201	495145.95	3761736.41	3.43976
495165.95	3761736.41	3.29802	495185.95	3761736.41	3.17116
495205.95	3761736.41	3.04213	495225.95	3761736.41	2.91463
495245.95	3761736.41	2.79670	495265.95	3761736.41	2.70544
495285.95	3761736.41	2.61337	495305.95	3761736.41	2.51986
495325.95	3761736.41	2.42998	495345.95	3761736.41	2.34789
495365.95	3761736.41	2.26282	495385.95	3761736.41	2.18096
495405.95	3761736.41	2.10821	495425.95	3761736.41	2.04223
495445.95	3761736.41	1.97654	495465.95	3761736.41	1.89669
495485.95	3761736.41	1.83196	495505.95	3761736.41	1.77701
495525.95	3761736.41	1.72652	495545.95	3761736.41	1.67628
494845.95	3761756.41	6.89948	494865.95	3761756.41	6.50740
494885.95	3761756.41	6.15577	494905.95	3761756.41	5.83442
494925.95	3761756.41	5.51956	494945.95	3761756.41	5.22302
494965.95	3761756.41	4.95325	494985.95	3761756.41	4.71596
495005.95	3761756.41	4.48554	495025.95		

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3761756.41        4.26610
         495045.95    3761756.41        4.06544                     495065.95
3761756.41        3.88438
         495085.95    3761756.41        3.71837                     495105.95
3761756.41        3.55427
         495125.95    3761756.41        3.40021                     495145.95
3761756.41        3.25700
         495165.95    3761756.41        3.12408                     495185.95
3761756.41        3.00825
         495205.95    3761756.41        2.89302                     495225.95
3761756.41        2.77737
         495245.95    3761756.41        2.66832                     495265.95
3761756.41        2.58194
         495285.95    3761756.41        2.49487                     495305.95
3761756.41        2.40717
         495325.95    3761756.41        2.32413                     495345.95
3761756.41        2.24771
         495365.95    3761756.41        2.16865                     495385.95
3761756.41        2.09241
         495405.95    3761756.41        2.02398                     495425.95
3761756.41        1.96203
         495445.95    3761756.41        1.90100                     495465.95
3761756.41        1.83279
         495485.95    3761756.41        1.77361                     495505.95
3761756.41        1.72071
         495525.95    3761756.41        1.67135                     495545.95
3761756.41        1.62153
         495565.95    3761756.41        1.57525                     494845.95
3761776.41        6.41358
         494865.95    3761776.41        6.06371                     494885.95
3761776.41        5.74481
         494905.95    3761776.41        5.44825                     494925.95
3761776.41        5.16633
         494945.95    3761776.41        4.90133                     494965.95
3761776.41        4.65671
         494985.95    3761776.41        4.43494                     495005.95
3761776.41        4.22322
         495025.95    3761776.41        4.02581                     495045.95
3761776.41        3.84241
         495065.95    3761776.41        3.67316                     495085.95
3761776.41        3.51736
         495105.95    3761776.41        3.36390                     495125.95
3761776.41        3.21855
         495145.95    3761776.41        3.08335                     495165.95
3761776.41        2.95883
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Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING ***
INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
495185.95	3761776.41	2.85305	495205.95	3761776.41	2.75123
495225.95	3761776.41	2.64886	495245.95	3761776.41	2.54920
495265.95	3761776.41	2.46494	495285.95	3761776.41	2.38072
495305.95	3761776.41	2.29837	495325.95	3761776.41	2.22067
495345.95	3761776.41	2.14822	495365.95	3761776.41	2.07586
495385.95	3761776.41	2.00588	495405.95	3761776.41	1.94238
495425.95	3761776.41	1.88360	495445.95	3761776.41	1.82530
495465.95	3761776.41	1.76914	495485.95	3761776.41	1.71553
495505.95	3761776.41	1.66503	495525.95	3761776.41	1.61673
495545.95	3761776.41	1.56794	495565.95	3761776.41	1.51904
494845.95	3761796.41	5.94152	494865.95	3761796.41	5.62203
494885.95	3761796.41	5.33543	494905.95	3761796.41	5.06948
494925.95	3761796.41	4.81712	494945.95	3761796.41	4.58077
494965.95	3761796.41	4.35959	494985.95	3761796.41	4.15527
495005.95	3761796.41	3.96245	495025.95	3761796.41	3.78381
495045.95	3761796.41	3.61631	495065.95	3761796.41	3.45971
495085.95	3761796.41	3.31372	495105.95		

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3761796.41        3.17392
         495125.95    3761796.41        3.04061                     495145.95
3761796.41        2.91641
         495165.95    3761796.41        2.80250                     495185.95
3761796.41        2.70495
         495205.95    3761796.41        2.61343                     495225.95
3761796.41        2.52196
         495245.95    3761796.41        2.43160                     495265.95
3761796.41        2.35033
         495285.95    3761796.41        2.27202                     495305.95
3761796.41        2.19594
         495325.95    3761796.41        2.12236                     495345.95
3761796.41        2.05213
         495365.95    3761796.41        1.98574                     495385.95
3761796.41        1.92228
         495405.95    3761796.41        1.86307                     495425.95
3761796.41        1.80690
         495445.95    3761796.41        1.75275                     495465.95
3761796.41        1.70076
         495485.95    3761796.41        1.65082                     495505.95
3761796.41        1.60280
         495525.95    3761796.41        1.55662                     495545.95
3761796.41        1.51149
         495565.95    3761796.41        1.46496                     494965.95
3761816.41        4.09036
         494985.95    3761816.41        3.90259                     495005.95
3761816.41        3.72713
         495025.95    3761816.41        3.56382                     495045.95
3761816.41        3.41043
         495065.95    3761816.41        3.26619                     495085.95
3761816.41        3.13033
         495105.95    3761816.41        3.00050                     495125.95
3761816.41        2.87749
         495145.95    3761816.41        2.76321                     495165.95
3761816.41        2.65886
         495185.95    3761816.41        2.56762                     495205.95
3761816.41        2.48112
         495225.95    3761816.41        2.39483                     495245.95
3761816.41        2.31057
         495265.95    3761816.41        2.23376                     495285.95
3761816.41        2.16083
         495305.95    3761816.41        2.09089                     495325.95
3761816.41        2.02301
         495345.95    3761816.41        1.95685                     495365.95
3761816.41        1.89428
         495385.95    3761816.41        1.83623                     495405.95
3761816.41        1.78179
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING ***
INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
495425.95	3761816.41	1.72980	495445.95	3761816.41	1.67959
495465.95	3761816.41	1.63108	495485.95	3761816.41	1.58392
495505.95	3761816.41	1.53807	495525.95	3761816.41	1.49349
495545.95	3761816.41	1.45036	495565.95	3761816.41	1.40710
495125.95	3761836.41	2.72784	495145.95	3761836.41	2.62207
495165.95	3761836.41	2.52641	495185.95	3761836.41	2.44122
495205.95	3761836.41	2.35692	495225.95	3761836.41	2.27321
495365.95	3761836.41	1.80578	495385.95	3761836.41	1.75253
495405.95	3761836.41	1.70282	495425.95	3761836.41	1.65556
495445.95	3761836.41	1.60928	495465.95	3761836.41	1.56346
495485.95	3761836.41	1.51863	495505.95	3761836.41	1.47477
495525.95	3761836.41	1.43164	495545.95	3761836.41	1.38924
495565.95	3761836.41	1.34890	495125.95	3761856.41	2.59131
495145.95	3761856.41	2.49134	495165.95	3761856.41	2.40138
495185.95	3761856.41	2.32482	495205.95	3761856.41	2.24400
495225.95	3761856.41	2.16364	495385.95		

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3761856.41        1.67827
         495405.95    3761856.41        1.63414                    495425.95
3761856.41        1.59024
         495445.95    3761856.41        1.54688                    495465.95
3761856.41        1.50263
         495485.95    3761856.41        1.46028                    495505.95
3761856.41        1.41855
         495525.95    3761856.41        1.37633                    495545.95
3761856.41        1.33332
         495565.95    3761856.41        1.29159                    495125.95
3761876.41        2.46718
         495145.95    3761876.41        2.37286                    495165.95
3761876.41        2.28713
         495185.95    3761876.41        2.21553                    495205.95
3761876.41        2.13874
         495225.95    3761876.41        2.06301                    495385.95
3761876.41        1.61039
         495405.95    3761876.41        1.57031                    495425.95
3761876.41        1.52895
         495445.95    3761876.41        1.48804                    495465.95
3761876.41        1.44639
         495485.95    3761876.41        1.40673                    495505.95
3761876.41        1.36735
         495525.95    3761876.41        1.32697                    495545.95
3761876.41        1.28447
         495565.95    3761876.41        1.24202                    495125.95
3761896.41        2.35364
         495145.95    3761896.41        2.26534                    495165.95
3761896.41        2.18297
         495185.95    3761896.41        2.11341                    495205.95
3761896.41        2.04037
         495225.95    3761896.41        1.97049                    495385.95
3761896.41        1.54779
         495405.95    3761896.41        1.51117                    495425.95
3761896.41        1.47189
         495445.95    3761896.41        1.43247                    495465.95
3761896.41        1.39419
         495485.95    3761896.41        1.35702                    495505.95
3761896.41        1.32023
         495525.95    3761896.41        1.28215                    495545.95
3761896.41        1.24067
         495565.95    3761896.41        1.19861                    495585.95
3761896.41        1.16508
         495125.95    3761916.41        2.25134                    495145.95
3761916.41        2.16973
         495165.95    3761916.41        2.09188                    495185.95
3761916.41        2.02631
         495205.95    3761916.41        1.95530                    495225.95
3761916.41        1.89029
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING ***
                                  INCLUDING SOURCE(S):   STCK1   ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         495385.95   3761916.41   1.48530   495405.95
3761916.41   1.44978
         495425.95   3761916.41   1.41337   495445.95
3761916.41   1.37646
         495465.95   3761916.41   1.34033   495485.95
3761916.41   1.30518
         495505.95   3761916.41   1.26948   495525.95
3761916.41   1.23208
         495545.95   3761916.41   1.19319   495565.95
3761916.41   1.15444
         495585.95   3761916.41   1.12328   495125.95
3761936.41   2.15475
         495145.95   3761936.41   2.07932   495165.95
3761936.41   2.00648
         495185.95   3761936.41   1.94500   495205.95
3761936.41   1.87770
         495225.95   3761936.41   1.81681   495145.95
3761956.41   1.99277
         495165.95   3761956.41   1.92537   495185.95
3761956.41   1.86919
         495205.95   3761956.41   1.80674   495225.95
3761956.41   1.74928
         495145.95   3761976.41   1.91258   495165.95
3761976.41   1.84895
         495185.95   3761976.41   1.79582   495205.95
3761976.41   1.73723
         495225.95   3761976.41   1.68270   495145.95
3761996.41   1.83599
         495165.95   3761996.41   1.77653   495185.95

3761996.41 1.72543
495205.95 3761996.41 1.67040 495225.95
3761996.41 1.61892
495145.95 3762016.41 1.76284 495165.95
3762016.41 1.70756
495185.95 3762016.41 1.65787 495205.95
3762016.41 1.60577
495225.95 3762016.41 1.55679 495145.95
3762036.41 1.69416
495165.95 3762036.41 1.64191 495185.95
3762036.41 1.59306
495205.95 3762036.41 1.54328 495225.95
3762036.41 1.49689
495145.95 3762056.41 1.63051 495165.95
3762056.41 1.58057
495185.95 3762056.41 1.53262 495205.95
3762056.41 1.48485
495225.95 3762056.41 1.44073 494031.10
3761757.45 6.57222
494022.49 3761743.26 6.51891 494020.46
3761734.14 6.55542
494013.36 3761724.00 6.48659 494002.72
3761712.34 6.33670
493991.57 3761703.22 6.14094 493980.42
3761692.58 5.96146
493969.78 3761686.49 5.77115 493957.61
3761681.43 5.55553
493943.93 3761673.82 5.32026 493926.19
3761672.81 5.02236
493913.51 3761671.29 4.82614 493899.83
3761669.77 4.62887
493832.42 3761639.36 3.83563 493822.79
3761647.47 3.72942
493811.13 3761658.11 3.60358 493809.61
3761669.26 3.57816
493817.72 3761682.44 3.64170 493833.43
3761689.53 3.79019
493853.71 3761695.11 3.99891 493871.45
3761693.08 4.21105
493888.17 3761693.08 4.42253 493905.91
3761693.59 4.66387
493920.61 3761694.60 4.87808 493939.36
3761698.15 5.16583
493959.64 3761706.77 5.48475 493975.35
3761717.41 5.72567
493983.46 3761726.03 5.83105 493991.06
3761738.19 5.89585
494001.20 3761754.41 5.96976 493984.47
3761753.40 5.65349
493980.42 3761746.81 5.62636 493970.79

                               *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING ***
                                  INCLUDING SOURCE(S):   STCK1   ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

3761754.41 4.39462
493888.68 3761754.41 4.21218 493872.97
3761753.91 4.03084
493851.68 3761754.41 3.79810 493835.46
3761751.88 3.64509
493818.73 3761751.37 3.49054 493742.20
3761651.01 2.99839
493742.20 3761665.21 2.98718 493742.20
3761680.41 2.97237
493746.25 3761695.11 2.99078 493750.31
3761708.80 3.00764
493754.87 3761721.47 3.03026 493757.91
3761732.62 3.03806
493772.10 3761750.36 3.10712 493760.44
3761749.34 3.02306
493749.29 3761748.84 2.94446 493730.54
3761748.84 2.81622
493705.70 3761747.32 2.65920 493712.80
3761770.63 2.64558
493739.66 3761767.59 2.82692 493757.40
3761769.11 2.94481
493780.21 3761771.14 3.10537 493801.50
3761770.12 3.27523
493830.90 3761773.17 3.51679 493850.66
3761773.67 3.70845
493872.46 3761773.67 3.94199 493893.75
3761776.71 4.17446
493908.45 3761775.70 4.35990 493926.19
3761779.75 4.56789
493937.84 3761778.74 4.73228 493952.54
3761780.26 4.93457
493967.75 3761779.75 5.17130 493975.35
3761783.81 5.26355
493989.54 3761780.26 5.53068 494000.19
3761781.78 5.70837
494014.88 3761785.33 5.95070 494027.05
3761785.84 6.18581
494049.35 3761786.34 6.65161 494066.08
3761786.34 7.03804
494171.35 3761821.06 9.37314 494176.48
3761840.83 8.92772
494171.35 3761886.24 7.55367 494831.53
3761814.80 5.80505
494846.31 3761570.20 12.03525 494859.75
3761515.10 11.13642
494839.59 3761451.93 10.35275 494863.63
3761459.20 9.80446
494887.97 3761461.34 9.14110 494935.78
3761472.98 8.10173
494961.89 3761422.37 6.81027 494996.53

3761368.08   5.53194
         494991.46   3761326.95   5.03332   495039.84
3761351.14   4.88479

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING ***
                                    INCLUDING SOURCE(S):   STCK1   ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         495133.92   3761336.35   3.46021   495229.34
3761325.60   3.23217
         495414.80   3761335.01   2.46874   495539.79
3761406.24   2.17428
         495545.17   3761697.88   1.79557   495576.08
3761783.89   1.47571
         495589.52   3761934.41   1.08528   495387.93
3761934.41   1.43079
         495359.70   3761828.24   1.85985   495237.40
3761820.18   2.32257
         495237.40   3762072.84   1.37427   495127.20
3762068.81   1.64070
         495124.51   3761818.83   2.86765

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: BREATHIN ***
                                    INCLUDING SOURCE(S):   STCK2   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
495005.95	3761336.41	5.02887	495145.95	3761336.41	3.38127
495165.95	3761336.41	3.62779	495185.95	3761336.41	3.53587
495205.95	3761336.41	3.43339	495225.95	3761336.41	3.32631
495245.95	3761336.41	3.22252	495265.95	3761336.41	3.13624
495285.95	3761336.41	3.10464	495305.95	3761336.41	2.98966
495325.95	3761336.41	2.87096	495345.95	3761336.41	2.77846
495365.95	3761336.41	2.66782	495385.95	3761336.41	2.57472
495405.95	3761336.41	2.49866	495005.95	3761356.41	5.28405
495025.95	3761356.41	5.07868	495045.95	3761356.41	4.88423
495065.95	3761356.41	4.69462	495085.95	3761356.41	4.43793
495105.95	3761356.41	4.20211	495125.95	3761356.41	4.04383
495145.95	3761356.41	3.92870	495165.95	3761356.41	3.81476
495185.95	3761356.41	3.69534	495205.95	3761356.41	3.57762
495225.95	3761356.41	3.47052	495245.95	3761356.41	3.37218
495265.95	3761356.41	3.27695	495285.95	3761356.41	3.18321
495305.95	3761356.41	3.05279	495325.95	3761356.41	2.93753
495345.95	3761356.41	2.84306	495365.95	3761356.41	2.73554
495385.95	3761356.41	2.63823	495405.95	3761356.41	2.55038
495425.95	3761356.41	2.46775	495445.95	3761356.41	2.38186
495005.95	3761376.41	5.53976	495025.95		

3761376.41   5.31119
         495045.95   3761376.41   5.09462   495065.95
3761376.41   4.89280
         495085.95   3761376.41   4.69657   495105.95
3761376.41   4.47796
         495125.95   3761376.41   4.29304   495145.95
3761376.41   4.14034
         495165.95   3761376.41   3.99196   495185.95
3761376.41   3.84828
         495205.95   3761376.41   3.71678   495225.95
3761376.41   3.60465
         495245.95   3761376.41   3.49549   495265.95
3761376.41   3.38116
         495285.95   3761376.41   3.24633   495305.95
3761376.41   3.11395
         495325.95   3761376.41   3.00234   495345.95
3761376.41   2.90247
         495365.95   3761376.41   2.79939   495385.95
3761376.41   2.69926
         495405.95   3761376.41   2.60355   495425.95
3761376.41   2.50884
         495445.95   3761376.41   2.40867   495465.95
3761376.41   2.32254
         495485.95   3761376.41   2.25626   494985.95
3761396.41   6.06033
         495005.95   3761396.41   5.79342   495025.95
3761396.41   5.54073
         495045.95   3761396.41   5.30217   495065.95
3761396.41   5.07896
         495085.95   3761396.41   4.87716   495105.95
3761396.41   4.67174
         495125.95   3761396.41   4.48089   495145.95
3761396.41   4.31202
         495165.95   3761396.41   4.14992   495185.95
3761396.41   3.99425
         495205.95   3761396.41   3.85005   495225.95
3761396.41   3.71870
         495245.95   3761396.41   3.58232   495265.95
3761396.41   3.44778
         495285.95   3761396.41   3.30974   495305.95
3761396.41   3.18211

VALUES FOR SOURCE GROUP: BREATHIN ***
INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
495325.95	3761396.41	3.06294	495345.95	3761396.41	2.94822
495365.95	3761396.41	2.84294	495385.95	3761396.41	2.74174
495405.95	3761396.41	2.64382	495425.95	3761396.41	2.54698
495445.95	3761396.41	2.44759	495465.95	3761396.41	2.36261
495485.95	3761396.41	2.29035	495505.95	3761396.41	2.23735
494965.95	3761416.41	6.65206	494985.95	3761416.41	6.33550
495005.95	3761416.41	6.03937	495025.95	3761416.41	5.76283
495045.95	3761416.41	5.50246	495065.95	3761416.41	5.25761
495085.95	3761416.41	5.03534	495105.95	3761416.41	4.83359
495125.95	3761416.41	4.63619	495145.95	3761416.41	4.45015
495165.95	3761416.41	4.27516	495185.95	3761416.41	4.11043
495205.95	3761416.41	3.95554	495225.95	3761416.41	3.80573
495245.95	3761416.41	3.65028	495265.95	3761416.41	3.50914
495285.95	3761416.41	3.37489	495305.95	3761416.41	3.24641
495325.95	3761416.41	3.11580	495345.95	3761416.41	2.98024
495365.95	3761416.41	2.87243	495385.95	3761416.41	2.77210
495405.95	3761416.41	2.67511	495425.95	3761416.41	2.57976
495445.95	3761416.41	2.48537	495465.95	3761416.41	2.40102
495485.95	3761416.41	2.32494	495505.95		

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3761416.41        2.25891
         495525.95    3761416.41        2.20435                    494965.95
3761436.41        6.94559
         494985.95    3761436.41        6.59576                    495005.95
3761436.41        6.27268
         495025.95    3761436.41        5.97249                    495045.95
3761436.41        5.69056
         495065.95    3761436.41        5.42472                    495085.95
3761436.41        5.17755
         495105.95    3761436.41        4.95672                    495125.95
3761436.41        4.75352
         495145.95    3761436.41        4.56190                    495165.95
3761436.41        4.37935
         495185.95    3761436.41        4.20559                    495205.95
3761436.41        4.04073
         495225.95    3761436.41        3.87676                    495245.95
3761436.41        3.71106
         495265.95    3761436.41        3.57058                    495285.95
3761436.41        3.43585
         495305.95    3761436.41        3.30280                    495325.95
3761436.41        3.15993
         495345.95    3761436.41        3.00210                    495365.95
3761436.41        2.89258
         495385.95    3761436.41        2.79468                    495405.95
3761436.41        2.69990
         495425.95    3761436.41        2.60702                    495445.95
3761436.41        2.51718
         495465.95    3761436.41        2.43423                    495485.95
3761436.41        2.35571
         495505.95    3761436.41        2.28184                    495525.95
3761436.41        2.21345
         494845.95    3761456.41       10.28343                    494945.95
3761456.41        7.63148
         494965.95    3761456.41        7.21738                    494985.95
3761456.41        6.83556
         495005.95    3761456.41        6.48699                    495025.95
3761456.41        6.16239
         495045.95    3761456.41        5.85820                    495065.95
3761456.41        5.57364
         495085.95    3761456.41        5.31256                    495105.95
3761456.41        5.07093
         495125.95    3761456.41        4.85090                    495145.95
3761456.41        4.64912
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                       ***        08:18:30

                                  PAGE 116
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: BREATHIN ***
INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
495165.95	3761456.41	4.46131	495185.95	3761456.41	4.28038
495205.95	3761456.41	4.10716	495225.95	3761456.41	3.93298
495245.95	3761456.41	3.76008	495265.95	3761456.41	3.61852
495285.95	3761456.41	3.48065	495305.95	3761456.41	3.34150
495325.95	3761456.41	3.19103	495345.95	3761456.41	3.02680
495365.95	3761456.41	2.91980	495385.95	3761456.41	2.82295
495405.95	3761456.41	2.72674	495425.95	3761456.41	2.62935
495445.95	3761456.41	2.53111	495465.95	3761456.41	2.45203
495485.95	3761456.41	2.37551	495505.95	3761456.41	2.29953
495525.95	3761456.41	2.22478	494865.95	3761476.41	10.14978
494885.95	3761476.41	9.51041	494905.95	3761476.41	8.92638
494925.95	3761476.41	8.39401	494945.95	3761476.41	7.90654
494965.95	3761476.41	7.45841	494985.95	3761476.41	7.04720
495005.95	3761476.41	6.67441	495025.95	3761476.41	6.32645
495045.95	3761476.41	6.00185	495065.95	3761476.41	5.69959
495085.95	3761476.41	5.42385	495105.95	3761476.41	5.16774
495125.95	3761476.41	4.93293	495145.95	3761476.41	4.71889
495165.95	3761476.41	4.52227	495185.95		

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3761476.41        4.33152
         495205.95    3761476.41        4.14970                      495225.95
3761476.41        3.96970
         495245.95    3761476.41        3.79641                      495265.95
3761476.41        3.65122
         495285.95    3761476.41        3.50885                      495305.95
3761476.41        3.36547
         495325.95    3761476.41        3.21364                      495345.95
3761476.41        3.05401
         495365.95    3761476.41        2.94913                      495385.95
3761476.41        2.85008
         495405.95    3761476.41        2.75021                      495425.95
3761476.41        2.64724
         495445.95    3761476.41        2.54008                      495465.95
3761476.41        2.46338
         495485.95    3761476.41        2.38806                      495505.95
3761476.41        2.31100
         495525.95    3761476.41        2.23287                      494865.95
3761496.41       10.57261
         494885.95    3761496.41        9.87082                      494905.95
3761496.41        9.23554
         494925.95    3761496.41        8.65956                      494945.95
3761496.41        8.13535
         494965.95    3761496.41        7.65688                      494985.95
3761496.41        7.22001
         495005.95    3761496.41        6.82543                      495025.95
3761496.41        6.45720
         495045.95    3761496.41        6.11424                      495065.95
3761496.41        5.79637
         495085.95    3761496.41        5.50577                      495105.95
3761496.41        5.24242
         495125.95    3761496.41        4.99704                      495145.95
3761496.41        4.77004
         495165.95    3761496.41        4.56135                      495185.95
3761496.41        4.35658
         495205.95    3761496.41        4.16547                      495225.95
3761496.41        3.98560
         495245.95    3761496.41        3.81812                      495265.95
3761496.41        3.66738
         495285.95    3761496.41        3.51931                      495305.95
3761496.41        3.37382
         495325.95    3761496.41        3.22609                      495345.95
3761496.41        3.07881
         495365.95    3761496.41        2.97456                      495385.95
3761496.41        2.87164
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                       ***        08:18:30
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: BREATHIN ***

INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
495405.95	3761496.41	2.76718	495425.95	3761496.41	2.65823
495445.95	3761496.41	2.54212	495465.95	3761496.41	2.46675
495485.95	3761496.41	2.39261	495505.95	3761496.41	2.31561
495525.95	3761496.41	2.23586	494865.95	3761516.41	10.90391
494885.95	3761516.41	10.14643	494905.95	3761516.41	9.46892
494925.95	3761516.41	8.85645	494945.95	3761516.41	8.30045
494965.95	3761516.41	7.79550	494985.95	3761516.41	7.33696
495005.95	3761516.41	6.92904	495025.95	3761516.41	6.54656
495045.95	3761516.41	6.18948	495065.95	3761516.41	5.85757
495085.95	3761516.41	5.55659	495105.95	3761516.41	5.28572
495125.95	3761516.41	5.03364	495145.95	3761516.41	4.79975
495165.95	3761516.41	4.58411	495185.95	3761516.41	4.37779
495205.95	3761516.41	4.18443	495225.95	3761516.41	4.00271
495245.95	3761516.41	3.83243	495265.95	3761516.41	3.67499
495285.95	3761516.41	3.52313	495305.95	3761516.41	3.37653
495325.95	3761516.41	3.23412	495345.95	3761516.41	3.09746
495365.95	3761516.41	2.98647	495385.95		

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3761516.41        2.87882
         495405.95    3761516.41        2.77076                    495425.95
3761516.41        2.65887
         495445.95    3761516.41        2.54004                    495465.95
3761516.41        2.46392
         495485.95    3761516.41        2.38985                    495505.95
3761516.41        2.31289
         495525.95    3761516.41        2.23240                    494865.95
3761536.41       11.11127
         494885.95    3761536.41       10.31384                    494905.95
3761536.41        9.60760
         494925.95    3761536.41        8.96925                    494945.95
3761536.41        8.39108
         494965.95    3761536.41        7.86746                    494985.95
3761536.41        7.39529
         495005.95    3761536.41        6.97754                    495025.95
3761536.41        6.58529
         495045.95    3761536.41        6.21796                    495065.95
3761536.41        5.87689
         495085.95    3761536.41        5.57147                    495105.95
3761536.41        5.29480
         495125.95    3761536.41        5.03690                    495145.95
3761536.41        4.79756
         495165.95    3761536.41        4.57738                    495185.95
3761536.41        4.37074
         495205.95    3761536.41        4.17625                    495225.95
3761536.41        3.99367
         495245.95    3761536.41        3.82284                    495265.95
3761536.41        3.66334
         495285.95    3761536.41        3.51071                    495305.95
3761536.41        3.36546
         495325.95    3761536.41        3.22748                    495345.95
3761536.41        3.09755
         495365.95    3761536.41        2.98156                    495385.95
3761536.41        2.87093
         495405.95    3761536.41        2.76168                    495425.95
3761536.41        2.65083
         495445.95    3761536.41        2.53476                    495465.95
3761536.41        2.45384
         495485.95    3761536.41        2.37824                    495505.95
3761536.41        2.30081
         495525.95    3761536.41        2.22009                    494865.95
3761556.41       11.17439
         494885.95    3761556.41       10.35591                    494905.95
3761556.41        9.63647
         494925.95    3761556.41        8.98590                    494945.95
3761556.41        8.39696
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: BREATHIN ***
INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
494965.95	3761556.41	7.86540	494985.95	3761556.41	7.38784
495005.95	3761556.41	6.96446	495025.95	3761556.41	6.56687
495045.95	3761556.41	6.19410	495065.95	3761556.41	5.84985
495085.95	3761556.41	5.54720	495105.95	3761556.41	5.26628
495125.95	3761556.41	5.00366	495145.95	3761556.41	4.76086
495165.95	3761556.41	4.53925	495185.95	3761556.41	4.33220
495205.95	3761556.41	4.13866	495225.95	3761556.41	3.95739
495245.95	3761556.41	3.78825	495265.95	3761556.41	3.63057
495285.95	3761556.41	3.48087	495305.95	3761556.41	3.33969
495325.95	3761556.41	3.20599	495345.95	3761556.41	3.07942
495365.95	3761556.41	2.95943	495385.95	3761556.41	2.84761
495405.95	3761556.41	2.73997	495425.95	3761556.41	2.63344
495445.95	3761556.41	2.52504	495465.95	3761556.41	2.43649
495485.95	3761556.41	2.35748	495505.95	3761556.41	2.27960
495525.95	3761556.41	2.19890	494845.95	3761576.41	12.00441
494865.95	3761576.41	11.08142	494885.95		

```
3761576.41       10.26383
         494905.95    3761576.41        9.54765                    494925.95
3761576.41        8.89935
         494945.95    3761576.41        8.31166                    494965.95
3761576.41        7.78177
         494985.95    3761576.41        7.30846                    495005.95
3761576.41        6.88476
         495025.95    3761576.41        6.48837                    495045.95
3761576.41        6.11848
         495065.95    3761576.41        5.77920                    495085.95
3761576.41        5.48399
         495105.95    3761576.41        5.20555                    495125.95
3761576.41        4.94313
         495145.95    3761576.41        4.69978                    495165.95
3761576.41        4.47546
         495185.95    3761576.41        4.26651                    495205.95
3761576.41        4.07148
         495225.95    3761576.41        3.88981                    495245.95
3761576.41        3.72007
         495265.95    3761576.41        3.56294                    495285.95
3761576.41        3.41566
         495305.95    3761576.41        3.27901                    495325.95
3761576.41        3.15053
         495345.95    3761576.41        3.02863                    495365.95
3761576.41        2.91162
         495385.95    3761576.41        2.80239                    495405.95
3761576.41        2.69978
         495425.95    3761576.41        2.60111                    495445.95
3761576.41        2.50079
         495465.95    3761576.41        2.41135                    495485.95
3761576.41        2.32993
         495505.95    3761576.41        2.24954                    495525.95
3761576.41        2.16836
         494845.95    3761596.41       11.73073                    494865.95
3761596.41       10.83244
         494885.95    3761596.41       10.03587                    494905.95
3761596.41        9.34157
         494925.95    3761596.41        8.71102                    494945.95
3761596.41        8.13690
         494965.95    3761596.41        7.61882                    494985.95
3761596.41        7.15896
         495005.95    3761596.41        6.74217                    495025.95
3761596.41        6.35372
         495045.95    3761596.41        5.99246                    495065.95
3761596.41        5.66371
         495085.95    3761596.41        5.37918                    495105.95
3761596.41        5.10659
         495125.95    3761596.41        4.84965                    495145.95
3761596.41        4.60960
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                             *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: BREATHIN ***
                                 INCLUDING SOURCE(S):   STCK2   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                       ** CONC OF VARIOUS IN MICROGRAMS/M**3 **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)   Y-COORD (M)   CONC
 - - -

3761616.41 5.82241
495065.95 3761616.41 5.50821 495085.95
3761616.41 5.23577
495105.95 3761616.41 4.97333 495125.95
3761616.41 4.72621
495145.95 3761616.41 4.49504 495165.95
3761616.41 4.27989
495185.95 3761616.41 4.08129 495205.95
3761616.41 3.89571
495225.95 3761616.41 3.72284 495245.95
3761616.41 3.56081
495265.95 3761616.41 3.40828 495285.95
3761616.41 3.26768
495305.95 3761616.41 3.13626 495325.95
3761616.41 3.01370
495345.95 3761616.41 2.89861 495365.95
3761616.41 2.78911
495385.95 3761616.41 2.68171 495405.95
3761616.41 2.58114
495425.95 3761616.41 2.48896 495445.95
3761616.41 2.40760
495465.95 3761616.41 2.32408 495485.95
3761616.41 2.24399
495505.95 3761616.41 2.16480 495525.95
3761616.41 2.08589
494845.95 3761636.41 10.73035 494865.95
3761636.41 9.93897
494885.95 3761636.41 9.23743 494905.95
3761636.41 8.63115
494925.95 3761636.41 8.07133 494945.95
3761636.41 7.55370
494965.95 3761636.41 7.08650 494985.95
3761636.41 6.67661
495005.95 3761636.41 6.29760 495025.95
3761636.41 5.94526
495045.95 3761636.41 5.61812 495065.95
3761636.41 5.31968
495085.95 3761636.41 5.05882 495105.95
3761636.41 4.80891
495125.95 3761636.41 4.57001 495145.95
3761636.41 4.34602
495165.95 3761636.41 4.14089 495185.95
3761636.41 3.95067
495205.95 3761636.41 3.77447 495225.95
3761636.41 3.61025
495245.95 3761636.41 3.45577 495265.95
3761636.41 3.31094
495285.95 3761636.41 3.17565 495305.95
3761636.41 3.04988
495325.95 3761636.41 2.93293 495345.95

                               *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: BREATHIN ***
                                  INCLUDING SOURCE(S):   STCK2   ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

3761656.41 3.64054
495225.95 3761656.41 3.48564 495245.95
3761656.41 3.34009
495265.95 3761656.41 3.20346 495285.95
3761656.41 3.07387
495305.95 3761656.41 2.95338 495325.95
3761656.41 2.84097
495345.95 3761656.41 2.73558 495365.95
3761656.41 2.63766
495385.95 3761656.41 2.54256 495405.95
3761656.41 2.44616
495425.95 3761656.41 2.35102 495445.95
3761656.41 2.26224
495465.95 3761656.41 2.19070 495485.95
3761656.41 2.11936
495505.95 3761656.41 2.04673 495525.95
3761656.41 1.97529
494845.95 3761676.41 9.39113 494865.95
3761676.41 8.74543
494885.95 3761676.41 8.17341 494905.95
3761676.41 7.67943
494925.95 3761676.41 7.20450 494945.95
3761676.41 6.76612
494965.95 3761676.41 6.37290 494985.95
3761676.41 6.02957
495005.95 3761676.41 5.70539 495025.95
3761676.41 5.40059
495045.95 3761676.41 5.11766 495065.95
3761676.41 4.85925
495085.95 3761676.41 4.63492 495105.95
3761676.41 4.41574
495125.95 3761676.41 4.20436 495145.95
3761676.41 4.00619
495165.95 3761676.41 3.82485 495185.95
3761676.41 3.65731
495205.95 3761676.41 3.50149 495225.95
3761676.41 3.35636
495245.95 3761676.41 3.22019 495265.95
3761676.41 3.09139
495285.95 3761676.41 2.96672 495305.95
3761676.41 2.84966
495325.95 3761676.41 2.73970 495345.95
3761676.41 2.63658
495365.95 3761676.41 2.54573 495385.95
3761676.41 2.45780
495405.95 3761676.41 2.37017 495425.95
3761676.41 2.28061
495445.95 3761676.41 2.18575 495465.95
3761676.41 2.11381
495485.95 3761676.41 2.04672 495505.95

3761676.41   1.98044
         495525.95   3761676.41   1.91422   494845.95
3761696.41   8.70099

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: BREATHIN ***
                                  INCLUDING SOURCE(S):   STCK2   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                               ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         494865.95   3761696.41   8.12975   494885.95
3761696.41   7.62185
         494905.95   3761696.41   7.18045   494925.95
3761696.41   6.75205
         494945.95   3761696.41   6.35396   494965.95
3761696.41   5.99667
         494985.95   3761696.41   5.68296   495005.95
3761696.41   5.38516
         495025.95   3761696.41   5.10205   495045.95
3761696.41   4.84102
         495065.95   3761696.41   4.60505   495085.95
3761696.41   4.39799
         495105.95   3761696.41   4.19453   495125.95
3761696.41   4.00242
         495145.95   3761696.41   3.82281   495165.95
3761696.41   3.65655
         495185.95   3761696.41   3.50236   495205.95
3761696.41   3.35518
         495225.95   3761696.41   3.21583   495245.95
3761696.41   3.08659
         495265.95   3761696.41   2.96970   495285.95
3761696.41   2.85488
         495305.95   3761696.41   2.74362   495325.95
3761696.41   2.63869
         495345.95   3761696.41   2.54126   495365.95

```
3761696.41        2.45044
         495385.95    3761696.41        2.36634                    495405.95
3761696.41        2.28564
         495425.95    3761696.41        2.20463                    495445.95
3761696.41        2.11733
         495465.95    3761696.41        2.03746                    495485.95
3761696.41        1.97111
         495505.95    3761696.41        1.91080                    495525.95
3761696.41        1.85174
         494845.95    3761716.41        8.04336                    494865.95
3761716.41        7.53873
         494885.95    3761716.41        7.09156                    494905.95
3761716.41        6.69720
         494925.95    3761716.41        6.31187                    494945.95
3761716.41        5.95156
         494965.95    3761716.41        5.62631                    494985.95
3761716.41        5.33997
         495005.95    3761716.41        5.06776                    495025.95
3761716.41        4.80506
         495045.95    3761716.41        4.56517                    495065.95
3761716.41        4.35107
         495085.95    3761716.41        4.15985                    495105.95
3761716.41        3.97104
         495125.95    3761716.41        3.79599                    495145.95
3761716.41        3.63349
         495165.95    3761716.41        3.48136                    495185.95
3761716.41        3.34154
         495205.95    3761716.41        3.20252                    495225.95
3761716.41        3.06848
         495245.95    3761716.41        2.94538                    495265.95
3761716.41        2.84144
         495285.95    3761716.41        2.73775                    495305.95
3761716.41        2.63384
         495325.95    3761716.41        2.53540                    495345.95
3761716.41        2.44467
         495365.95    3761716.41        2.35451                    495385.95
3761716.41        2.27260
         495405.95    3761716.41        2.19735                    495425.95
3761716.41        2.12464
         495445.95    3761716.41        2.04808                    495465.95
3761716.41        1.96302
         495485.95    3761716.41        1.89734                    495505.95
3761716.41        1.84159
         495525.95    3761716.41        1.78834                    495545.95
3761716.41        1.73668
         494845.95    3761736.41        7.43639                    494865.95
3761736.41        6.99337
         494885.95    3761736.41        6.60176                    494905.95
3761736.41        6.24861
         494925.95    3761736.41        5.89953                    494945.95
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: BREATHIN ***
INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
495045.95	3761736.41	4.30275	495065.95	3761736.41	4.10699
495085.95	3761736.41	3.93004	495105.95	3761736.41	3.75529
495125.95	3761736.41	3.59200	495145.95	3761736.41	3.43974
495165.95	3761736.41	3.29800	495185.95	3761736.41	3.17114
495205.95	3761736.41	3.04212	495225.95	3761736.41	2.91461
495245.95	3761736.41	2.79669	495265.95	3761736.41	2.70543
495285.95	3761736.41	2.61336	495305.95	3761736.41	2.51985
495325.95	3761736.41	2.42997	495345.95	3761736.41	2.34788
495365.95	3761736.41	2.26282	495385.95	3761736.41	2.18095
495405.95	3761736.41	2.10820	495425.95	3761736.41	2.04222
495445.95	3761736.41	1.97653	495465.95	3761736.41	1.89668
495485.95	3761736.41	1.83195	495505.95		

3761736.41 1.77700
495525.95 3761736.41 1.72652 495545.95
3761736.41 1.67627
494845.95 3761756.41 6.89943 494865.95
3761756.41 6.50736
494885.95 3761756.41 6.15573 494905.95
3761756.41 5.83438
494925.95 3761756.41 5.51952 494945.95
3761756.41 5.22299
494965.95 3761756.41 4.95322 494985.95
3761756.41 4.71594
495005.95 3761756.41 4.48552 495025.95
3761756.41 4.26607
495045.95 3761756.41 4.06542 495065.95
3761756.41 3.88436
495085.95 3761756.41 3.71835 495105.95
3761756.41 3.55425
495125.95 3761756.41 3.40020 495145.95
3761756.41 3.25698
495165.95 3761756.41 3.12407 495185.95
3761756.41 3.00823
495205.95 3761756.41 2.89300 495225.95
3761756.41 2.77736
495245.95 3761756.41 2.66831 495265.95
3761756.41 2.58193
495285.95 3761756.41 2.49486 495305.95
3761756.41 2.40716
495325.95 3761756.41 2.32412 495345.95
3761756.41 2.24770
495365.95 3761756.41 2.16864 495385.95
3761756.41 2.09240
495405.95 3761756.41 2.02397 495425.95
3761756.41 1.96203
495445.95 3761756.41 1.90099 495465.95
3761756.41 1.83279
495485.95 3761756.41 1.77361 495505.95
3761756.41 1.72070
495525.95 3761756.41 1.67135 495545.95
3761756.41 1.62152
495565.95 3761756.41 1.57525 494845.95
3761776.41 6.41354
494865.95 3761776.41 6.06367 494885.95
3761776.41 5.74478
494905.95 3761776.41 5.44822 494925.95
3761776.41 5.16630
494945.95 3761776.41 4.90130 494965.95
3761776.41 4.65668
494985.95 3761776.41 4.43491 495005.95
3761776.41 4.22320
495025.95 3761776.41 4.02579 495045.95

3761776.41 3.84239
 495065.95 3761776.41 3.67314 495085.95
3761776.41 3.51735
 495105.95 3761776.41 3.36389 495125.95
3761776.41 3.21854
 495145.95 3761776.41 3.08333 495165.95
3761776.41 2.95881

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: BREATHIN ***
INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
495185.95	3761776.41	2.85304	495205.95	3761776.41	2.75121
495225.95	3761776.41	2.64885	495245.95	3761776.41	2.54919
495265.95	3761776.41	2.46493	495285.95	3761776.41	2.38071
495305.95	3761776.41	2.29836	495325.95	3761776.41	2.22066
495345.95	3761776.41	2.14821	495365.95	3761776.41	2.07585
495385.95	3761776.41	2.00587	495405.95	3761776.41	1.94238
495425.95	3761776.41	1.88359	495445.95	3761776.41	1.82530
495465.95	3761776.41	1.76914	495485.95	3761776.41	1.71552
495505.95	3761776.41	1.66502	495525.95	3761776.41	1.61673
495545.95	3761776.41	1.56794	495565.95	3761776.41	1.51903
494845.95	3761796.41	5.94148	494865.95		

3761796.41 5.62199
494885.95 3761796.41 5.33540 494905.95
3761796.41 5.06945
494925.95 3761796.41 4.81710 494945.95
3761796.41 4.58075
494965.95 3761796.41 4.35957 494985.95
3761796.41 4.15525
495005.95 3761796.41 3.96243 495025.95
3761796.41 3.78379
495045.95 3761796.41 3.61630 495065.95
3761796.41 3.45970
495085.95 3761796.41 3.31370 495105.95
3761796.41 3.17390
495125.95 3761796.41 3.04060 495145.95
3761796.41 2.91640
495165.95 3761796.41 2.80249 495185.95
3761796.41 2.70493
495205.95 3761796.41 2.61342 495225.95
3761796.41 2.52195
495245.95 3761796.41 2.43159 495265.95
3761796.41 2.35032
495285.95 3761796.41 2.27201 495305.95
3761796.41 2.19593
495325.95 3761796.41 2.12235 495345.95
3761796.41 2.05212
495365.95 3761796.41 1.98573 495385.95
3761796.41 1.92227
495405.95 3761796.41 1.86307 495425.95
3761796.41 1.80690
495445.95 3761796.41 1.75274 495465.95
3761796.41 1.70075
495485.95 3761796.41 1.65081 495505.95
3761796.41 1.60280
495525.95 3761796.41 1.55662 495545.95
3761796.41 1.51149
495565.95 3761796.41 1.46495 494965.95
3761816.41 4.09033
494985.95 3761816.41 3.90257 495005.95
3761816.41 3.72712
495025.95 3761816.41 3.56381 495045.95
3761816.41 3.41042
495065.95 3761816.41 3.26618 495085.95
3761816.41 3.13032
495105.95 3761816.41 3.00048 495125.95
3761816.41 2.87747
495145.95 3761816.41 2.76320 495165.95
3761816.41 2.65885
495185.95 3761816.41 2.56761 495205.95
3761816.41 2.48111
495225.95 3761816.41 2.39482 495245.95

3761816.41 2.31056
495265.95 3761816.41 2.23375 495285.95
3761816.41 2.16082
495305.95 3761816.41 2.09088 495325.95
3761816.41 2.02300
495345.95 3761816.41 1.95684 495365.95
3761816.41 1.89427
495385.95 3761816.41 1.83622 495405.95
3761816.41 1.78178

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: BREATHIN ***
INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
495425.95	3761816.41	1.72979	495445.95	3761816.41	1.67959
495465.95	3761816.41	1.63107	495485.95	3761816.41	1.58392
495505.95	3761816.41	1.53807	495525.95	3761816.41	1.49349
495545.95	3761816.41	1.45036	495565.95	3761816.41	1.40710
495125.95	3761836.41	2.72783	495145.95	3761836.41	2.62206
495165.95	3761836.41	2.52640	495185.95	3761836.41	2.44121
495205.95	3761836.41	2.35691	495225.95	3761836.41	2.27320
495365.95	3761836.41	1.80577	495385.95	3761836.41	1.75252
495405.95	3761836.41	1.70282	495425.95	3761836.41	1.65556
495445.95	3761836.41	1.60927	495465.95		

3761836.41 1.56346
495485.95 3761836.41 1.51863 495505.95
3761836.41 1.47477
495525.95 3761836.41 1.43163 495545.95
3761836.41 1.38924
495565.95 3761836.41 1.34889 495125.95
3761856.41 2.59130
495145.95 3761856.41 2.49133 495165.95
3761856.41 2.40137
495185.95 3761856.41 2.32481 495205.95
3761856.41 2.24399
495225.95 3761856.41 2.16363 495385.95
3761856.41 1.67826
495405.95 3761856.41 1.63413 495425.95
3761856.41 1.59023
495445.95 3761856.41 1.54688 495465.95
3761856.41 1.50263
495485.95 3761856.41 1.46027 495505.95
3761856.41 1.41854
495525.95 3761856.41 1.37633 495545.95
3761856.41 1.33332
495565.95 3761856.41 1.29158 495125.95
3761876.41 2.46717
495145.95 3761876.41 2.37286 495165.95
3761876.41 2.28713
495185.95 3761876.41 2.21553 495205.95
3761876.41 2.13873
495225.95 3761876.41 2.06300 495385.95
3761876.41 1.61039
495405.95 3761876.41 1.57031 495425.95
3761876.41 1.52895
495445.95 3761876.41 1.48803 495465.95
3761876.41 1.44638
495485.95 3761876.41 1.40673 495505.95
3761876.41 1.36735
495525.95 3761876.41 1.32697 495545.95
3761876.41 1.28447
495565.95 3761876.41 1.24201 495125.95
3761896.41 2.35363
495145.95 3761896.41 2.26533 495165.95
3761896.41 2.18296
495185.95 3761896.41 2.11341 495205.95
3761896.41 2.04036
495225.95 3761896.41 1.97048 495385.95
3761896.41 1.54778
495405.95 3761896.41 1.51117 495425.95
3761896.41 1.47188
495445.95 3761896.41 1.43246 495465.95
3761896.41 1.39419
495485.95 3761896.41 1.35701 495505.95

3761896.41   1.32023
         495525.95   3761896.41   1.28215   495545.95
3761896.41   1.24067
         495565.95   3761896.41   1.19860   495585.95
3761896.41   1.16507
         495125.95   3761916.41   2.25134   495145.95
3761916.41   2.16972
         495165.95   3761916.41   2.09187   495185.95
3761916.41   2.02631
         495205.95   3761916.41   1.95530   495225.95
3761916.41   1.89028

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: BREATHIN ***
                                  INCLUDING SOURCE(S):   STCK2   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                               ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         495385.95   3761916.41   1.48530   495405.95
3761916.41   1.44978
         495425.95   3761916.41   1.41337   495445.95
3761916.41   1.37646
         495465.95   3761916.41   1.34032   495485.95
3761916.41   1.30518
         495505.95   3761916.41   1.26947   495525.95
3761916.41   1.23207
         495545.95   3761916.41   1.19319   495565.95
3761916.41   1.15444
         495585.95   3761916.41   1.12328   495125.95
3761936.41   2.15475
         495145.95   3761936.41   2.07932   495165.95
3761936.41   2.00647
         495185.95   3761936.41   1.94499   495205.95
3761936.41   1.87769
         495225.95   3761936.41   1.81681   495145.95

3761956.41 1.99277
495165.95 3761956.41 1.92537 495185.95
3761956.41 1.86918
495205.95 3761956.41 1.80673 495225.95
3761956.41 1.74927
495145.95 3761976.41 1.91258 495165.95
3761976.41 1.84894
495185.95 3761976.41 1.79581 495205.95
3761976.41 1.73722
495225.95 3761976.41 1.68270 495145.95
3761996.41 1.83599
495165.95 3761996.41 1.77652 495185.95
3761996.41 1.72542
495205.95 3761996.41 1.67039 495225.95
3761996.41 1.61892
495145.95 3762016.41 1.76284 495165.95
3762016.41 1.70755
495185.95 3762016.41 1.65786 495205.95
3762016.41 1.60577
495225.95 3762016.41 1.55678 495145.95
3762036.41 1.69415
495165.95 3762036.41 1.64191 495185.95
3762036.41 1.59305
495205.95 3762036.41 1.54328 495225.95
3762036.41 1.49689
495145.95 3762056.41 1.63051 495165.95
3762056.41 1.58057
495185.95 3762056.41 1.53261 495205.95
3762056.41 1.48485
495225.95 3762056.41 1.44073 494031.10
3761757.45 6.57220
494022.49 3761743.26 6.51888 494020.46
3761734.14 6.55539
494013.36 3761724.00 6.48656 494002.72
3761712.34 6.33668
493991.57 3761703.22 6.14091 493980.42
3761692.58 5.96144
493969.78 3761686.49 5.77113 493957.61
3761681.43 5.55551
493943.93 3761673.82 5.32024 493926.19
3761672.81 5.02234
493913.51 3761671.29 4.82613 493899.83
3761669.77 4.62886
493832.42 3761639.36 3.83562 493822.79
3761647.47 3.72941
493811.13 3761658.11 3.60357 493809.61
3761669.26 3.57815
493817.72 3761682.44 3.64169 493833.43
3761689.53 3.79018
493853.71 3761695.11 3.99890 493871.45

3761693.08   4.21104
         493888.17   3761693.08   4.42252   493905.91
3761693.59   4.66386
         493920.61   3761694.60   4.87806   493939.36
3761698.15   5.16581
         493959.64   3761706.77   5.48474   493975.35
3761717.41   5.72565
         493983.46   3761726.03   5.83102   493991.06
3761738.19   5.89582
         494001.20   3761754.41   5.96974   493984.47
3761753.40   5.65347
         493980.42   3761746.81   5.62634   493970.79
3761734.64   5.53119

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: BREATHIN ***
                                 INCLUDING SOURCE(S):   STCK2   ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                      ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         493953.56   3761728.06   5.26558   493937.34
3761717.41   5.05085
         493921.12   3761715.38   4.80941   493906.93
3761711.33   4.62087
         493887.16   3761711.33   4.35707   493870.43
3761711.33   4.15150
         493857.76   3761710.82   4.00701   493843.06
3761709.81   3.84937
         493829.38   3761709.81   3.70896   493806.57
3761701.19   3.50614
         493799.47   3761683.96   3.46557   493797.45
3761663.18   3.46820
         493779.71   3761668.25   3.30486   493775.14
3761687.51   3.24608
         493782.75   3761700.18   3.29406   493793.39

3761716.90 3.35769
493809.10 3761730.59 3.46621 493821.27
3761732.11 3.57381
493843.57 3761730.59 3.79731 493874.99
3761733.63 4.13153
493883.61 3761733.12 4.23599 493904.90
3761734.64 4.50004
493928.72 3761736.17 4.82775 493941.39
3761745.80 4.96992
493954.06 3761758.47 5.09553 493931.76
3761757.45 4.76457
493915.54 3761754.92 4.55169 493903.38
3761754.41 4.39461
493888.68 3761754.41 4.21216 493872.97
3761753.91 4.03083
493851.68 3761754.41 3.79809 493835.46
3761751.88 3.64508
493818.73 3761751.37 3.49053 493742.20
3761651.01 2.99838
493742.20 3761665.21 2.98717 493742.20
3761680.41 2.97237
493746.25 3761695.11 2.99077 493750.31
3761708.80 3.00763
493754.87 3761721.47 3.03026 493757.91
3761732.62 3.03806
493772.10 3761750.36 3.10711 493760.44
3761749.34 3.02305
493749.29 3761748.84 2.94445 493730.54
3761748.84 2.81622
493705.70 3761747.32 2.65920 493712.80
3761770.63 2.64558
493739.66 3761767.59 2.82692 493757.40
3761769.11 2.94481
493780.21 3761771.14 3.10536 493801.50
3761770.12 3.27522
493830.90 3761773.17 3.51678 493850.66
3761773.67 3.70844
493872.46 3761773.67 3.94198 493893.75
3761776.71 4.17445
493908.45 3761775.70 4.35989 493926.19
3761779.75 4.56788
493937.84 3761778.74 4.73227 493952.54
3761780.26 4.93456
493967.75 3761779.75 5.17128 493975.35
3761783.81 5.26353
493989.54 3761780.26 5.53066 494000.19
3761781.78 5.70835
494014.88 3761785.33 5.95067 494027.05
3761785.84 6.18579
494049.35 3761786.34 6.65158 494066.08

         495133.92   3761336.35   3.46019   495229.34
3761325.60   3.23215
         495414.80   3761335.01   2.46873   495539.79
3761406.24   2.17428
         495545.17   3761697.88   1.79556   495576.08
3761783.89   1.47570
         495589.52   3761934.41   1.08528   495387.93
3761934.41   1.43078
         495359.70   3761828.24   1.85985   495237.40
3761820.18   2.32256
         495237.40   3762072.84   1.37426   495127.20
3762068.81   1.64069
         495124.51   3761818.83   2.86764

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SPILL ***
INCLUDING SOURCE(S): VOL2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
495005.95	3761336.41	4.70291	495145.95	3761336.41	3.23585
495165.95	3761336.41	3.20285	495185.95	3761336.41	3.15682
495205.95	3761336.41	3.08501	495225.95	3761336.41	2.99688
495245.95	3761336.41	2.90917	495265.95	3761336.41	2.85177
495285.95	3761336.41	2.94927	495305.95	3761336.41	2.88495
495325.95	3761336.41	2.78658	495345.95	3761336.41	2.70054
495365.95	3761336.41	2.60281	495385.95	3761336.41	2.51671
495405.95	3761336.41	2.44395	495005.95	3761356.41	4.95439
495025.95	3761356.41	4.78692	495045.95	3761356.41	4.60076
495065.95	3761356.41	4.38323	495085.95	3761356.41	4.00080
495105.95	3761356.41	3.70854	495125.95	3761356.41	3.56815
495145.95	3761356.41	3.50428	495165.95	3761356.41	3.43603
495185.95	3761356.41	3.34783	495205.95	3761356.41	3.25535
495225.95	3761356.41	3.17835	495245.95		

3761356.41 3.11538
495265.95 3761356.41 3.05520 495285.95
3761356.41 3.04986
495305.95 3761356.41 2.95249 495325.95
3761356.41 2.85121
495345.95 3761356.41 2.76280 495365.95
3761356.41 2.66650
495385.95 3761356.41 2.57705 495405.95
3761356.41 2.49512
495425.95 3761356.41 2.41762 495445.95
3761356.41 2.33782
495005.95 3761376.41 5.18528 495025.95
3761376.41 5.00211
495045.95 3761376.41 4.81300 495065.95
3761376.41 4.62215
495085.95 3761376.41 4.37656 495105.95
3761376.41 4.09938
495125.95 3761376.41 3.91316 495145.95
3761376.41 3.78937
495165.95 3761376.41 3.66326 495185.95
3761376.41 3.53611
495205.95 3761376.41 3.42676 495225.95
3761376.41 3.35655
495245.95 3761376.41 3.29516 495265.95
3761376.41 3.21355
495285.95 3761376.41 3.12939 495305.95
3761376.41 3.01810
495325.95 3761376.41 2.91670 495345.95
3761376.41 2.82388
495365.95 3761376.41 2.72981 495385.95
3761376.41 2.63798
495405.95 3761376.41 2.54981 495425.95
3761376.41 2.46247
495445.95 3761376.41 2.37056 495465.95
3761376.41 2.29006
495485.95 3761376.41 2.22660 494985.95
3761396.41 5.63809
495005.95 3761396.41 5.43199 495025.95
3761396.41 5.21442
495045.95 3761396.41 5.00706 495065.95
3761396.41 4.80680
495085.95 3761396.41 4.59718 495105.95
3761396.41 4.34586
495125.95 3761396.41 4.15836 495145.95
3761396.41 4.01850
495165.95 3761396.41 3.87759 495185.95
3761396.41 3.73503
495205.95 3761396.41 3.61085 495225.95
3761396.41 3.52248
495245.95 3761396.41 3.42880 495265.95

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SPILL ***
INCLUDING SOURCE(S): VOL2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
495325.95	3761396.41	2.98214	495345.95	3761396.41	2.87816
495365.95	3761396.41	2.78112	495385.95	3761396.41	2.68762
495405.95	3761396.41	2.59702	495425.95	3761396.41	2.50739
495445.95	3761396.41	2.41556	495465.95	3761396.41	2.33568
495485.95	3761396.41	2.26682	495505.95	3761396.41	2.21481
494965.95	3761416.41	6.19646	494985.95	3761416.41	5.92546
495005.95	3761416.41	5.66898	495025.95	3761416.41	5.42506
495045.95	3761416.41	5.19824	495065.95	3761416.41	4.98407
495085.95	3761416.41	4.77668	495105.95	3761416.41	4.56416
495125.95	3761416.41	4.37204	495145.95	3761416.41	4.20195
495165.95	3761416.41	4.04163	495185.95	3761416.41	3.89091
495205.95	3761416.41	3.75517	495225.95	3761416.41	3.64087
495245.95	3761416.41	3.52038	495265.95		

3761416.41 3.39664
495285.95 3761416.41 3.27720 495305.95
3761416.41 3.16175
495325.95 3761416.41 3.04530 495345.95
3761416.41 2.92429
495365.95 3761416.41 2.82413 495385.95
3761416.41 2.73028
495405.95 3761416.41 2.63947 495425.95
3761416.41 2.55024
495445.95 3761416.41 2.46188 495465.95
3761416.41 2.38204
495485.95 3761416.41 2.30946 495505.95
3761416.41 2.24579
495525.95 3761416.41 2.19235 494965.95
3761436.41 6.48204
494985.95 3761436.41 6.18519 495005.95
3761436.41 5.89981
495025.95 3761436.41 5.63360 495045.95
3761436.41 5.38754
495065.95 3761436.41 5.15755 495085.95
3761436.41 4.93945
495105.95 3761436.41 4.73345 495125.95
3761436.41 4.53852
495145.95 3761436.41 4.35342 495165.95
3761436.41 4.18011
495185.95 3761436.41 4.02157 495205.95
3761436.41 3.87500
495225.95 3761436.41 3.74026 495245.95
3761436.41 3.60263
495265.95 3761436.41 3.47431 495285.95
3761436.41 3.35150
495305.95 3761436.41 3.23132 495325.95
3761436.41 3.10482
495345.95 3761436.41 2.96444 495365.95
3761436.41 2.86152
495385.95 3761436.41 2.76857 495405.95
3761436.41 2.67856
495425.95 3761436.41 2.59046 495445.95
3761436.41 2.50512
495465.95 3761436.41 2.42583 495485.95
3761436.41 2.35054
495505.95 3761436.41 2.27943 495525.95
3761436.41 2.21331
494845.95 3761456.41 9.27921 494945.95
3761456.41 7.09566
494965.95 3761456.41 6.76165 494985.95
3761456.41 6.43506
495005.95 3761456.41 6.12420 495025.95
3761456.41 5.83839
495045.95 3761456.41 5.57413 495065.95

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SPILL   ***
                                  INCLUDING SOURCE(S):   VOL2   ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

3761476.41 7.40387
494965.95 3761476.41 7.02503 494985.95
3761476.41 6.67069
495005.95 3761476.41 6.33652 495025.95
3761476.41 6.03163
495045.95 3761476.41 5.74856 495065.95
3761476.41 5.48322
495085.95 3761476.41 5.23522 495105.95
3761476.41 5.00377
495125.95 3761476.41 4.78835 495145.95
3761476.41 4.58842
495165.95 3761476.41 4.40207 495185.95
3761476.41 4.22580
495205.95 3761476.41 4.05922 495225.95
3761476.41 3.89809
495245.95 3761476.41 3.74197 495265.95
3761476.41 3.60454
495285.95 3761476.41 3.47120 495305.95
3761476.41 3.33886
495325.95 3761476.41 3.20006 495345.95
3761476.41 3.05374
495365.95 3761476.41 2.95215 495385.95
3761476.41 2.85599
495405.95 3761476.41 2.75959 495425.95
3761476.41 2.66082
495445.95 3761476.41 2.55826 495465.95
3761476.41 2.48279
495485.95 3761476.41 2.40878 495505.95
3761476.41 2.33341
495525.95 3761476.41 2.25713 494865.95
3761496.41 9.70944
494885.95 3761496.41 9.13791 494905.95
3761496.41 8.60222
494925.95 3761496.41 8.11681 494945.95
3761496.41 7.67186
494965.95 3761496.41 7.26124 494985.95
3761496.41 6.88092
495005.95 3761496.41 6.52526 495025.95
3761496.41 6.20141
495045.95 3761496.41 5.90066 495065.95
3761496.41 5.61908
495085.95 3761496.41 5.35679 495105.95
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3761496.41 4.67659
495165.95 3761496.41 4.48062 495185.95
3761496.41 4.29265
495205.95 3761496.41 4.11578 495225.95
3761496.41 3.94857
495245.95 3761496.41 3.79155 495265.95

3761496.41   3.64784
         495285.95   3761496.41   3.50805   495305.95
3761496.41   3.37123
         495325.95   3761496.41   3.23288   495345.95
3761496.41   3.09480
         495365.95   3761496.41   2.99247   495385.95
3761496.41   2.89192

                                *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SPILL   ***
                                  INCLUDING SOURCE(S):   VOL2   ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

```
3761516.41        4.73791
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3761516.41        4.34091
         495205.95    3761516.41        4.15920                    495225.95
3761516.41        3.98784
         495245.95    3761516.41        3.82642                    495265.95
3761516.41        3.67600
         495285.95    3761516.41        3.53130                    495305.95
3761516.41        3.39142
         495325.95    3761516.41        3.25553                    495345.95
3761516.41        3.12480
         495365.95    3761516.41        3.01579                    495385.95
3761516.41        2.91026
         495405.95    3761516.41        2.80483                    495425.95
3761516.41        2.69632
         495445.95    3761516.41        2.58136                    495465.95
3761516.41        2.50495
         495485.95    3761516.41        2.43069                    495505.95
3761516.41        2.35404
         495525.95    3761516.41        2.27431                    494865.95
3761536.41       10.36149
         494885.95    3761536.41        9.69509                    494905.95
3761536.41        9.07032
         494925.95    3761536.41        8.52275                    494945.95
3761536.41        8.02592
         494965.95    3761536.41        7.56882                    494985.95
3761536.41        7.14708
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3761536.41        6.40342
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3761536.41        5.76907
         495085.95    3761536.41        5.48680                    495105.95
3761536.41        5.22715
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3761536.41        4.75959
         495165.95    3761536.41        4.55039                    495185.95
3761536.41        4.35403
         495205.95    3761536.41        4.16906                    495225.95
3761536.41        3.99485
         495245.95    3761536.41        3.83123                    495265.95
3761536.41        3.67773
         495285.95    3761536.41        3.53074                    495305.95
3761536.41        3.39046
         495325.95    3761536.41        3.25693                    495345.95
3761536.41        3.13078
         495365.95    3761536.41        3.01689                    495385.95
3761536.41        2.90814
         495405.95    3761536.41        2.80098                    495425.95
3761536.41        2.69267
         495445.95    3761536.41        2.57954                    495465.95
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3761536.41   2.49839
         495485.95   3761536.41   2.42238   495505.95
3761536.41   2.34493
         495525.95   3761536.41   2.26457   494865.95
3761556.41   10.44061
         494885.95   3761556.41   9.75575   494905.95
3761556.41   9.11726
         494925.95   3761556.41   8.55631   494945.95
3761556.41   8.04880

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SPILL   ***
                                 INCLUDING SOURCE(S):   VOL2   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         494965.95   3761556.41   7.58238   494985.95
3761556.41   7.15347
         495005.95   3761556.41   6.76071   495025.95
3761556.41   6.40105
         495045.95   3761556.41   6.06680   495065.95
3761556.41   5.75512
         495085.95   3761556.41   5.47198   495105.95
3761556.41   5.20891
         495125.95   3761556.41   4.96280   495145.95
3761556.41   4.73382
         495165.95   3761556.41   4.52265   495185.95
3761556.41   4.32488
         495205.95   3761556.41   4.13939   495225.95
3761556.41   3.96520
         495245.95   3761556.41   3.80199   495265.95
3761556.41   3.64906
         495285.95   3761556.41   3.50363   495305.95
3761556.41   3.36611
         495325.95   3761556.41   3.23567   495345.95

3761556.41 3.11198
495365.95 3761556.41 2.99446 495385.95
3761556.41 2.88440
495405.95 3761556.41 2.77837 495425.95
3761556.41 2.67361
495445.95 3761556.41 2.56719 495465.95
3761556.41 2.47900
495485.95 3761556.41 2.39980 495505.95
3761556.41 2.32186
495525.95 3761556.41 2.24135 494845.95
3761576.41 11.06426
494865.95 3761576.41 10.31344 494885.95
3761576.41 9.63330
494905.95 3761576.41 9.00586 494925.95
3761576.41 8.44989
494945.95 3761576.41 7.94633 494965.95
3761576.41 7.48380
494985.95 3761576.41 7.05961 495005.95
3761576.41 6.67272
495025.95 3761576.41 6.31560 495045.95
3761576.41 5.98337
495065.95 3761576.41 5.67492 495085.95
3761576.41 5.39803
495105.95 3761576.41 5.13832 495125.95
3761576.41 4.89379
495145.95 3761576.41 4.66565 495165.95
3761576.41 4.45368
495185.95 3761576.41 4.25517 495205.95
3761576.41 4.06909
495225.95 3761576.41 3.89482 495245.95
3761576.41 3.73107
495265.95 3761576.41 3.57867 495285.95
3761576.41 3.43536
495305.95 3761576.41 3.30189 495325.95
3761576.41 3.17613
495345.95 3761576.41 3.05661 495365.95
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495385.95 3761576.41 2.83412 495405.95
3761576.41 2.73280
495425.95 3761576.41 2.63527 495445.95
3761576.41 2.53640
495465.95 3761576.41 2.44764 495485.95
3761576.41 2.36644
495505.95 3761576.41 2.28631 495525.95
3761576.41 2.20544
494845.95 3761596.41 10.70733 494865.95
3761596.41 9.98675
494885.95 3761596.41 9.33612 494905.95
3761596.41 8.73965
494925.95 3761596.41 8.20611 494945.95

3761596.41   7.72126
         494965.95   3761596.41   7.27555   494985.95
3761596.41   6.86849
         495005.95   3761596.41   6.49606   495025.95
3761596.41   6.15050
         495045.95   3761596.41   5.82844   495065.95
3761596.41   5.53126
         495085.95   3761596.41   5.26656   495105.95
3761596.41   5.01523
         495125.95   3761596.41   4.77815   495145.95
3761596.41   4.55558

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SPILL   ***
                                  INCLUDING SOURCE(S):   VOL2   ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         495165.95   3761596.41   4.34795   495185.95
3761596.41   4.15356
         495205.95   3761596.41   3.97164   495225.95
3761596.41   3.80074
         495245.95   3761596.41   3.64045   495265.95
3761596.41   3.49070
         495285.95   3761596.41   3.35137   495305.95
3761596.41   3.22232
         495325.95   3761596.41   3.10094   495345.95
3761596.41   2.98575
         495365.95   3761596.41   2.87488   495385.95
3761596.41   2.76949
         495405.95   3761596.41   2.67134   495425.95
3761596.41   2.57911
         495445.95   3761596.41   2.48900   495465.95
3761596.41   2.40213
         495485.95   3761596.41   2.32074   495505.95

3761596.41 2.24082
495525.95 3761596.41 2.16077 494845.95
3761616.41 10.16098
494865.95 3761616.41 9.49518 494885.95
3761616.41 8.89184
494905.95 3761616.41 8.34309 494925.95
3761616.41 7.84676
494945.95 3761616.41 7.39281 494965.95
3761616.41 6.97461
494985.95 3761616.41 6.59434 495005.95
3761616.41 6.24402
495025.95 3761616.41 5.91740 495045.95
3761616.41 5.61347
495065.95 3761616.41 5.33381 495085.95
3761616.41 5.08511
495105.95 3761616.41 4.84724 495125.95
3761616.41 4.62267
495145.95 3761616.41 4.41145 495165.95
3761616.41 4.21333
495185.95 3761616.41 4.02891 495205.95
3761616.41 3.85558
495225.95 3761616.41 3.69290 495245.95
3761616.41 3.53955
495265.95 3761616.41 3.39454 495285.95
3761616.41 3.26015
495305.95 3761616.41 3.13407 495325.95
3761616.41 3.01596
495345.95 3761616.41 2.90462 495365.95
3761616.41 2.79846
495385.95 3761616.41 2.69435 495405.95
3761616.41 2.59652
495425.95 3761616.41 2.50636 495445.95
3761616.41 2.42625
495465.95 3761616.41 2.34421 495485.95
3761616.41 2.26539
495505.95 3761616.41 2.18735 495525.95
3761616.41 2.10956
494845.95 3761636.41 9.49496 494865.95
3761636.41 8.89415
494885.95 3761636.41 8.34814 494905.95
3761636.41 7.85613
494925.95 3761636.41 7.40500 494945.95
3761636.41 6.98763
494965.95 3761636.41 6.60341 494985.95
3761636.41 6.25701
495005.95 3761636.41 5.93526 495025.95
3761636.41 5.63485
495045.95 3761636.41 5.35396 495065.95
3761636.41 5.09466
495085.95 3761636.41 4.86319 495105.95

3761636.41 4.64179
495125.95 3761636.41 4.42985 495145.95
3761636.41 4.22967
495165.95 3761636.41 4.04418 495185.95
3761636.41 3.87079
495205.95 3761636.41 3.70885 495225.95
3761636.41 3.55677
495245.95 3761636.41 3.41290 495265.95
3761636.41 3.27727
495285.95 3761636.41 3.15002 495305.95
3761636.41 3.03112
495325.95 3761636.41 2.91993 495345.95
3761636.41 2.81501

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SPILL ***
INCLUDING SOURCE(S): VOL2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF VARIOUS IN MICROGRAMS/M**3
**

X-COORD (M) Y-COORD (M) CONC X-COORD (M)
Y-COORD (M) CONC
- - - -

3761656.41 6.19180
494985.95 3761656.41 5.88138 495005.95
3761656.41 5.58957
495025.95 3761656.41 5.31699 495045.95
3761656.41 5.06074
495065.95 3761656.41 4.82349 495085.95
3761656.41 4.61239
495105.95 3761656.41 4.40914 495125.95
3761656.41 4.21214
495145.95 3761656.41 4.02576 495165.95
3761656.41 3.85460
495185.95 3761656.41 3.69447 495205.95
3761656.41 3.54508
495225.95 3761656.41 3.40465 495245.95
3761656.41 3.27185
495265.95 3761656.41 3.14646 495285.95
3761656.41 3.02705
495305.95 3761656.41 2.91539 495325.95
3761656.41 2.81056
495345.95 3761656.41 2.71182 495365.95
3761656.41 2.61963
495385.95 3761656.41 2.52988 495405.95
3761656.41 2.43893
495425.95 3761656.41 2.34883 495445.95
3761656.41 2.26427
495465.95 3761656.41 2.19529 495485.95
3761656.41 2.12643
495505.95 3761656.41 2.05633 495525.95
3761656.41 1.98722
494845.95 3761676.41 8.10323 494865.95
3761676.41 7.61931
494885.95 3761676.41 7.18210 494905.95
3761676.41 6.79567
494925.95 3761676.41 6.42670 494945.95
3761676.41 6.08280
494965.95 3761676.41 5.76965 494985.95
3761676.41 5.49197
495005.95 3761676.41 5.22881 495025.95
3761676.41 4.97999
495045.95 3761676.41 4.74733 495065.95
3761676.41 4.53302
495085.95 3761676.41 4.34413 495105.95
3761676.41 4.15931
495125.95 3761676.41 3.98026 495145.95
3761676.41 3.81091
495165.95 3761676.41 3.65435 495185.95
3761676.41 3.50857
495205.95 3761676.41 3.37180 495225.95
3761676.41 3.24343
495245.95 3761676.41 3.12214 495265.95

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3761676.41        3.00675
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3761676.41        2.78878
         495325.95    3761676.41        2.68873                        495345.95
3761676.41        2.59441
         495365.95    3761676.41        2.51064                        495385.95
3761676.41        2.42924
         495405.95    3761676.41        2.34798                        495425.95
3761676.41        2.26470
         495445.95    3761676.41        2.17632                        495465.95
3761676.41        2.10835
         495485.95    3761676.41        2.04468                        495505.95
3761676.41        1.98162
         495525.95    3761676.41        1.91846                        494845.95
3761696.41        7.48738
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                       ***        08:18:30

                                  PAGE 135
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SPILL    ***
                                  INCLUDING SOURCE(S):     VOL2        ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF VARIOUS  IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         494865.95    3761696.41        7.04874                        494885.95
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         494905.95    3761696.41        6.30469                        494925.95
3761696.41        5.96857
         494945.95    3761696.41        5.65404                        494965.95
3761696.41        5.36879
         494985.95    3761696.41        5.11621                        495005.95
3761696.41        4.87581
         495025.95    3761696.41        4.64632                        495045.95
3761696.41        4.43361
         495065.95    3761696.41        4.24018                        495085.95
3761696.41        4.06901
         495105.95    3761696.41        3.90021                        495125.95
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495145.95 3761696.41 3.58879 495165.95
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495185.95 3761696.41 3.31661 495205.95
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495225.95 3761696.41 3.06996 495245.95
3761696.41 2.95754
495265.95 3761696.41 2.85527 495285.95
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495345.95 3761696.41 2.47599 495365.95
3761696.41 2.39449
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3761696.41 2.24534
495425.95 3761696.41 2.17149 495445.95
3761696.41 2.09167
495465.95 3761696.41 2.01813 495485.95
3761696.41 1.95660
495505.95 3761696.41 1.90035 495525.95
3761696.41 1.84505
494845.95 3761716.41 6.95759 494865.95
3761716.41 6.55543
494885.95 3761716.41 6.19485 494905.95
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494925.95 3761716.41 5.56403 494945.95
3761716.41 5.27266
494965.95 3761716.41 5.00784 494985.95
3761716.41 4.77383
495005.95 3761716.41 4.55133 495025.95
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3761716.41 3.96362
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3761716.41 3.12388
495205.95 3761716.41 3.00624 495225.95
3761716.41 2.89209
495245.95 3761716.41 2.78679 495265.95
3761716.41 2.69786
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495325.95 3761716.41 2.43314 495345.95
3761716.41 2.35398
495365.95 3761716.41 2.27489 495385.95
3761716.41 2.20272
495405.95 3761716.41 2.13603 495425.95

3761716.41   2.07124
         495445.95   3761716.41   2.00264   495465.95
3761716.41   1.92589
         495485.95   3761716.41   1.86643   495505.95
3761716.41   1.81576
         495525.95   3761716.41   1.76711   495545.95
3761716.41   1.71968
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3761736.41   6.13895
         494885.95   3761736.41   5.80952   494905.95
3761736.41   5.51145
         494925.95   3761736.41   5.22082   494945.95
3761736.41   4.94547
         494965.95   3761736.41   4.69566   494985.95
3761736.41   4.47953
         495005.95   3761736.41   4.26837   495025.95
3761736.41   4.06535

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SPILL   ***
                                  INCLUDING SOURCE(S):   VOL2   ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         495045.95   3761736.41   3.88122   495065.95
3761736.41   3.71731
         495085.95   3761736.41   3.56924   495105.95
3761736.41   3.42282
         495125.95   3761736.41   3.28584   495145.95
3761736.41   3.15793
         495165.95   3761736.41   3.03879   495185.95
3761736.41   2.93226
         495205.95   3761736.41   2.82319   495225.95
3761736.41   2.71476
         495245.95   3761736.41   2.61437   495265.95

```
3761736.41        2.53760
         495285.95    3761736.41        2.45962                    495305.95
3761736.41        2.37987
         495325.95    3761736.41        2.30290                    495345.95
3761736.41        2.23256
         495365.95    3761736.41        2.15912                    495385.95
3761736.41        2.08812
         495405.95    3761736.41        2.02486                    495425.95
3761736.41        1.96737
         495445.95    3761736.41        1.90981                    495465.95
3761736.41        1.83891
         495485.95    3761736.41        1.78152                    495505.95
3761736.41        1.73280
         495525.95    3761736.41        1.68789                    495545.95
3761736.41        1.64292
         494845.95    3761756.41        6.12389                    494865.95
3761756.41        5.78717
         494885.95    3761756.41        5.48169                    494905.95
3761756.41        5.20149
         494925.95    3761756.41        4.93028                    494945.95
3761756.41        4.67423
         494965.95    3761756.41        4.43955                    494985.95
3761756.41        4.23224
         495005.95    3761756.41        4.03205                    495025.95
3761756.41        3.84191
         495045.95    3761756.41        3.66839                    495065.95
3761756.41        3.51213
         495085.95    3761756.41        3.36921                    495105.95
3761756.41        3.22817
         495125.95    3761756.41        3.09587                    495145.95
3761756.41        2.97297
         495165.95    3761756.41        2.85915                    495185.95
3761756.41        2.76050
         495205.95    3761756.41        2.66215                    495225.95
3761756.41        2.56306
         495245.95    3761756.41        2.46966                    495265.95
3761756.41        2.39675
         495285.95    3761756.41        2.32294                    495305.95
3761756.41        2.24823
         495325.95    3761756.41        2.17744                    495345.95
3761756.41        2.11242
         495365.95    3761756.41        2.04462                    495385.95
3761756.41        1.97904
         495405.95    3761756.41        1.92019                    495425.95
3761756.41        1.86698
         495445.95    3761756.41        1.81430                    495465.95
3761756.41        1.75470
         495485.95    3761756.41        1.70312                    495505.95
3761756.41        1.65709
         495525.95    3761756.41        1.61407                    495545.95
```

3761756.41   1.57035
         495565.95   3761756.41   1.52963   494845.95
3761776.41   5.77761
         494865.95   3761776.41   5.47083   494885.95
3761776.41   5.18818
         494905.95   3761776.41   4.92426   494925.95
3761776.41   4.67400
         494945.95   3761776.41   4.43791   494965.95
3761776.41   4.21839
         494985.95   3761776.41   4.01850   495005.95
3761776.41   3.82831
         495025.95   3761776.41   3.65113   495045.95
3761776.41   3.48695
         495065.95   3761776.41   3.33581   495085.95
3761776.41   3.19699
         495105.95   3761776.41   3.06082   495125.95
3761776.41   2.93208
         495145.95   3761776.41   2.81251   495165.95
3761776.41   2.70276

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SPILL   ***
                                  INCLUDING SOURCE(S):   VOL2   ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

3761776.41 1.93774
495385.95 3761776.41 1.87746 495405.95
3761776.41 1.82288
495425.95 3761776.41 1.77246 495445.95
3761776.41 1.72227
495465.95 3761776.41 1.67389 495485.95
3761776.41 1.62763
495505.95 3761776.41 1.58408 495525.95
3761776.41 1.54238
495545.95 3761776.41 1.50000 495565.95
3761776.41 1.45727
494845.95 3761796.41 5.43369 494865.95
3761796.41 5.15149
494885.95 3761796.41 4.89363 494905.95
3761796.41 4.65261
494925.95 3761796.41 4.42328 494945.95
3761796.41 4.20667
494965.95 3761796.41 4.00290 494985.95
3761796.41 3.81392
495005.95 3761796.41 3.63537 495025.95
3761796.41 3.46986
495045.95 3761796.41 3.31493 495065.95
3761796.41 3.17028
495085.95 3761796.41 3.03564 495105.95
3761796.41 2.90718
495125.95 3761796.41 2.78503 495145.95
3761796.41 2.67145
495165.95 3761796.41 2.56766 495185.95
3761796.41 2.47916
495205.95 3761796.41 2.39664 495225.95
3761796.41 2.31455
495245.95 3761796.41 2.23375 495265.95
3761796.41 2.16159
495285.95 3761796.41 2.09241 495305.95
3761796.41 2.02538
495325.95 3761796.41 1.96074 495345.95
3761796.41 1.89926
495365.95 3761796.41 1.84127 495385.95
3761796.41 1.78595
495405.95 3761796.41 1.73446 495425.95
3761796.41 1.68571
495445.95 3761796.41 1.63875 495465.95
3761796.41 1.59377
495485.95 3761796.41 1.55056 495505.95
3761796.41 1.50906
495525.95 3761796.41 1.46916 495545.95
3761796.41 1.43011
495565.95 3761796.41 1.38960 494965.95
3761816.41 3.80683
494985.95 3761816.41 3.63039 495005.95

3761816.41   3.46464
         495025.95   3761816.41   3.30996   495045.95
3761816.41   3.16444
         495065.95   3761816.41   3.02753   495085.95
3761816.41   2.89865
         495105.95   3761816.41   2.77575   495125.95
3761816.41   2.65944
         495145.95   3761816.41   2.55154   495165.95
3761816.41   2.45326
         495185.95   3761816.41   2.36746   495205.95
3761816.41   2.28660
         495225.95   3761816.41   2.20652   495245.95
3761816.41   2.12878
         495265.95   3761816.41   2.05837   495285.95
3761816.41   1.99190
         495305.95   3761816.41   1.92844   495325.95
3761816.41   1.86719
         495345.95   3761816.41   1.80770   495365.95
3761816.41   1.75163
         495385.95   3761816.41   1.69987   495405.95
3761816.41   1.65150

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SPILL   ***
                                  INCLUDING SOURCE(S):   VOL2   ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         495425.95   3761816.41   1.60547   495445.95
3761816.41   1.56118
         495465.95   3761816.41   1.51853   495485.95
3761816.41   1.47713
         495505.95   3761816.41   1.43696   495525.95
3761816.41   1.39796
         495545.95   3761816.41   1.36031   495565.95

3761816.41 1.32246
495125.95 3761836.41 2.54907 495145.95
3761836.41 2.44654
495165.95 3761836.41 2.35376 495185.95
3761836.41 2.27112
495205.95 3761836.41 2.18997 495225.95
3761836.41 2.10997
495365.95 3761836.41 1.67178 495385.95
3761836.41 1.62286
495405.95 3761836.41 1.57743 495425.95
3761836.41 1.53446
495445.95 3761836.41 1.49261 495465.95
3761836.41 1.45133
495485.95 3761836.41 1.41106 495505.95
3761836.41 1.37181
495525.95 3761836.41 1.33331 495545.95
3761836.41 1.29560
495565.95 3761836.41 1.25980 495125.95
3761856.41 2.44962
495145.95 3761856.41 2.35102 495165.95
3761856.41 2.26196
495185.95 3761856.41 2.18565 495205.95
3761856.41 2.10609
495225.95 3761856.41 2.02752 495385.95
3761856.41 1.55999
495405.95 3761856.41 1.51837 495425.95
3761856.41 1.47719
495445.95 3761856.41 1.43682 495465.95
3761856.41 1.39581
495485.95 3761856.41 1.35673 495505.95
3761856.41 1.31843
495525.95 3761856.41 1.27983 495545.95
3761856.41 1.24067
495565.95 3761856.41 1.20273 495125.95
3761876.41 2.35789
495145.95 3761876.41 2.26397 495165.95
3761876.41 2.17813
495185.95 3761876.41 2.10563 495205.95
3761876.41 2.02885
495225.95 3761876.41 1.95354 495385.95
3761876.41 1.50656
495405.95 3761876.41 1.46750 495425.95
3761876.41 1.42752
495445.95 3761876.41 1.38827 495465.95
3761876.41 1.34860
495485.95 3761876.41 1.31099 495505.95
3761876.41 1.27388
495525.95 3761876.41 1.23604 495545.95
3761876.41 1.19647
495565.95 3761876.41 1.15702 495125.95

3761896.41   2.27103
         495145.95   3761896.41   2.18280   495165.95
3761896.41   2.10004
         495185.95   3761896.41   2.02934   495205.95
3761896.41   1.95568
         495225.95   3761896.41   1.88533   495385.95
3761896.41   1.45978
         495405.95   3761896.41   1.42302   495425.95
3761896.41   1.38404
         495445.95   3761896.41   1.34525   495465.95
3761896.41   1.30780
         495485.95   3761896.41   1.27160   495505.95
3761896.41   1.23602
         495525.95   3761896.41   1.19947   495545.95
3761896.41   1.16002
         495565.95   3761896.41   1.12017   495585.95
3761896.41   1.08840
         495125.95   3761916.41   2.18939   495145.95
3761916.41   2.10800
         495165.95   3761916.41   2.02987   495185.95
3761916.41   1.96322
         495205.95   3761916.41   1.89155   495225.95
3761916.41   1.82568

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SPILL   ***
                                  INCLUDING SOURCE(S):   VOL2   ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

3761916.41 1.23178
495505.95 3761916.41 1.19650 495525.95
3761916.41 1.15987
495545.95 3761916.41 1.12215 495565.95
3761916.41 1.08469
495585.95 3761916.41 1.05446 495125.95
3761936.41 2.10824
495145.95 3761936.41 2.03353 495165.95
3761936.41 1.96083
495185.95 3761936.41 1.89865 495205.95
3761936.41 1.83086
495225.95 3761936.41 1.76911 495145.95
3761956.41 1.95862
495165.95 3761956.41 1.89193 495185.95
3761956.41 1.83558
495205.95 3761956.41 1.77298 495225.95
3761956.41 1.71495
495145.95 3761976.41 1.88639 495165.95
3761976.41 1.82413
495185.95 3761976.41 1.77153 495205.95
3761976.41 1.71333
495225.95 3761976.41 1.65871 495145.95
3761996.41 1.81512
495165.95 3761996.41 1.75752 495185.95
3761996.41 1.70759
495205.95 3761996.41 1.65350 495225.95
3761996.41 1.60247
495145.95 3762016.41 1.74553 495165.95
3762016.41 1.69235
495185.95 3762016.41 1.64431 495205.95
3762016.41 1.59360
495225.95 3762016.41 1.54557 495145.95
3762036.41 1.67938
495165.95 3762036.41 1.62927 495185.95
3762036.41 1.58229
495205.95 3762036.41 1.53419 495225.95
3762036.41 1.48911
495145.95 3762056.41 1.61778 495165.95
3762056.41 1.56981
495185.95 3762056.41 1.52373 495205.95
3762056.41 1.47772
495225.95 3762056.41 1.43510 494031.10
3761757.45 7.23722
494022.49 3761743.26 7.22991 494020.46
3761734.14 7.30654
494013.36 3761724.00 7.26156 494002.72
3761712.34 7.12291
493991.57 3761703.22 6.91959 493980.42
3761692.58 6.72568
493969.78 3761686.49 6.50561 493957.61

3761681.43   6.25025
         493943.93   3761673.82   5.97437   493926.19
3761672.81   5.61711
         493913.51   3761671.29   5.38268   493899.83
3761669.77   5.14666
         493832.42   3761639.36   4.19016   493822.79
3761647.47   4.07177
         493811.13   3761658.11   3.93312   493809.61
3761669.26   3.90993
         493817.72   3761682.44   3.98913   493833.43
3761689.53   4.16345
         493853.71   3761695.11   4.40760   493871.45
3761693.08   4.65513
         493888.17   3761693.08   4.90324   493905.91
3761693.59   5.18728
         493920.61   3761694.60   5.43957   493939.36
3761698.15   5.77686
         493959.64   3761706.77   6.14133   493975.35
3761717.41   6.40121
         493983.46   3761726.03   6.50125   493991.06
3761738.19   6.54035
         494001.20   3761754.41   6.57168   493984.47
3761753.40   6.22339
         493980.42   3761746.81   6.21239   493970.79
3761734.64   6.13820

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SPILL   ***
                                 INCLUDING SOURCE(S):   VOL2   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         493953.56   3761728.06   5.85102   493937.34
3761717.41   5.62200
         493921.12   3761715.38   5.34486   493906.93

3761711.33 5.12922
493887.16 3761711.33 4.82284 493870.43
3761711.33 4.58456
493857.76 3761710.82 4.41741 493843.06
3761709.81 4.23544
493829.38 3761709.81 4.07351 493806.57
3761701.19 3.83912
493799.47 3761683.96 3.78725 493797.45
3761663.18 3.78078
493779.71 3761668.25 3.59667 493775.14
3761687.51 3.53832
493782.75 3761700.18 3.59716 493793.39
3761716.90 3.67255
493809.10 3761730.59 3.79552 493821.27
3761732.11 3.91751
493843.57 3761730.59 4.17222 493874.99
3761733.63 4.55098
493883.61 3761733.12 4.67023 493904.90
3761734.64 4.96902
493928.72 3761736.17 5.33863 493941.39
3761745.80 5.48062
493954.06 3761758.47 5.59132 493931.76
3761757.45 5.22725
493915.54 3761754.92 4.99600 493903.38
3761754.41 4.82226
493888.68 3761754.41 4.61941 493872.97
3761753.91 4.41831
493851.68 3761754.41 4.15872 493835.46
3761751.88 3.98974
493818.73 3761751.37 3.81688 493742.20
3761651.01 3.24412
493742.20 3761665.21 3.23871 493742.20
3761680.41 3.22912
493746.25 3761695.11 3.25492 493750.31
3761708.80 3.27718
493754.87 3761721.47 3.30334 493757.91
3761732.62 3.31166
493772.10 3761750.36 3.38709 493760.44
3761749.34 3.29287
493749.29 3761748.84 3.20467 493730.54
3761748.84 3.06083
493705.70 3761747.32 2.88509 493712.80
3761770.63 2.86857
493739.66 3761767.59 3.07048 493757.40
3761769.11 3.20086
493780.21 3761771.14 3.37797 493801.50
3761770.12 3.56686
493830.90 3761773.17 3.83156 493850.66
3761773.67 4.04100
493872.46 3761773.67 4.29563 493893.75

3761776.71   4.54358
         493908.45   3761775.70   4.74666   493926.19
3761779.75   4.96496
         493937.84   3761778.74   5.14590   493952.54
3761780.26   5.36266
         493967.75   3761779.75   5.62180   493975.35
3761783.81   5.71234
         493989.54   3761780.26   6.01285   494000.19
3761781.78   6.20310
         494014.88   3761785.33   6.45937   494027.05
3761785.84   6.71686
         494049.35   3761786.34   7.23282   494066.08
3761786.34   7.66455
         494171.35   3761821.06   10.11244   494176.48
3761840.83   9.55340
         494171.35   3761886.24   7.96770   494831.53
3761814.80   5.35186
         494846.31   3761570.20   11.11408   494859.75
3761515.10   10.28159
         494839.59   3761451.93   9.31030   494863.63
3761459.20   8.91744
         494887.97   3761461.34   8.38826   494935.78
3761472.98   7.55361
         494961.89   3761422.37   6.34048   494996.53
3761368.08   5.12547
         494991.46   3761326.95   4.66088   495039.84
3761351.14   4.60437

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SPILL   ***
                                 INCLUDING SOURCE(S):   VOL2   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         495133.92   3761336.35   3.30796   495229.34

3761325.60   2.88932
         495414.80   3761335.01   2.41407   495539.79
3761406.24   2.15564
         495545.17   3761697.88   1.79102   495576.08
3761783.89   1.41140
         495589.52   3761934.41   1.02439   495387.93
3761934.41   1.37230
         495359.70   3761828.24   1.71995   495237.40
3761820.18   2.14211
         495237.40   3762072.84   1.37062   495127.20
3762068.81   1.62768
         495124.51   3761818.83   2.65386

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                   INCLUDING SOURCE(S):   VOL1   , VOL2
, L0000001   , L0000002   , L0000003   ,
                  L0000004   , L0000005   , L0000006   , L0000007   , L0000008
, L0000009   , L0000010   , L0000011   ,
                  L0000012   , L0000013   , L0000014   , L0000015   , L0000016
, L0000017   , L0000018   , L0000019   ,
                  L0000020   , L0000021   , L0000022   , L0000023   , L0000024
, L0000025   , L0000026   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         495005.95   3761336.41   37.04566   495145.95
3761336.41   24.11589
         495165.95   3761336.41   24.19940   495185.95
3761336.41   23.49345
         495205.95   3761336.41   22.70446   495225.95
3761336.41   21.88441
         495245.95   3761336.41   21.10425   495265.95
3761336.41   20.48518

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         495285.95    3761336.41       20.39712                  495305.95
3761336.41       19.57886
         495325.95    3761336.41       18.72175                  495345.95
3761336.41       18.05341
         495365.95    3761336.41       17.27023                  495385.95
3761336.41       16.61348
         495405.95    3761336.41       16.07720                  495005.95
3761356.41       37.92323
         495025.95    3761356.41       36.03271                  495045.95
3761356.41       34.24056
         495065.95    3761356.41       32.46201                  495085.95
3761356.41       30.20750
         495105.95    3761356.41       28.17907                  495125.95
3761356.41       26.89075
         495145.95    3761356.41       25.99896                  495165.95
3761356.41       25.14913
         495185.95    3761356.41       24.25562                  495205.95
3761356.41       23.39455
         495225.95    3761356.41       22.59725                  495245.95
3761356.41       21.87507
         495265.95    3761356.41       21.19277                  495285.95
3761356.41       20.62589
         495305.95    3761356.41       19.70911                  495325.95
3761356.41       18.89598
         495345.95    3761356.41       18.23218                  495365.95
3761356.41       17.48753
         495385.95    3761356.41       16.81773                  495405.95
3761356.41       16.21628
         495425.95    3761356.41       15.65414                  495445.95
3761356.41       15.07530
         495005.95    3761376.41       38.63985                  495025.95
3761376.41       36.66644
         495045.95    3761376.41       34.81457                  495065.95
3761376.41       33.12602
         495085.95    3761376.41       31.42861                  495105.95
3761376.41       29.66489
         495125.95    3761376.41       28.23518                  495145.95
3761376.41       27.07091
         495165.95    3761376.41       25.95145                  495185.95
3761376.41       24.88742
         495205.95    3761376.41       23.94035                  495225.95
3761376.41       23.13998
         495245.95    3761376.41       22.43622                  495265.95
3761376.41       21.64968
         495285.95    3761376.41       20.72914                  495305.95
3761376.41       19.81421
         495325.95    3761376.41       19.04787                  495345.95
3761376.41       18.36656
         495365.95    3761376.41       17.66926                  495385.95
3761376.41       16.99638
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         495405.95    3761376.41       16.35735                       495425.95
3761376.41       15.72948
         495445.95    3761376.41       15.07063                       495465.95
3761376.41       14.50540
         495485.95    3761376.41       14.07048                       494985.95
3761396.41       41.47413
         495005.95    3761396.41       39.28354                       495025.95
3761396.41       37.20473
         495045.95    3761396.41       35.28986                       495065.95
3761396.41       33.53901
         495085.95    3761396.41       31.98265                       495105.95
3761396.41       30.33927
         495125.95    3761396.41       28.92273                       495145.95
3761396.41       27.70591
         495165.95    3761396.41       26.55134                       495185.95
3761396.41       25.44723
         495205.95    3761396.41       24.44598                       495225.95
3761396.41       23.58748
         495245.95    3761396.41       22.66421                       495265.95
3761396.41       21.75423
         495285.95    3761396.41       20.81967                       495305.95
3761396.41       19.96119
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                      ***       08:18:30

                                  PAGE 143
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     VOL1        , VOL2
, L0000001    , L0000002    , L0000003    ,
                L0000004    , L0000005    , L0000006    , L0000007    , L0000008
, L0000009    , L0000010    , L0000011    ,
                L0000012    , L0000013    , L0000014    , L0000015    , L0000016
, L0000017    , L0000018    , L0000019    ,
                L0000020    , L0000021    , L0000022    , L0000023    , L0000024
, L0000025    , L0000026    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                           ** CONC OF VARIOUS  IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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495325.95	3761396.41	19.16591	495345.95	3761396.41	18.40557
495365.95	3761396.41	17.71177	495385.95	3761396.41	17.04853
495405.95	3761396.41	16.41026	495425.95	3761396.41	15.78248
495445.95	3761396.41	15.14134	495465.95	3761396.41	14.59466
495485.95	3761396.41	14.13120	495505.95	3761396.41	13.79190
494965.95	3761416.41	44.65465	494985.95	3761416.41	42.10455
495005.95	3761416.41	39.76588	495025.95	3761416.41	37.64027
495045.95	3761416.41	35.67428	495065.95	3761416.41	33.86666
495085.95	3761416.41	32.25725	495105.95	3761416.41	30.81954
495125.95	3761416.41	29.41798	495145.95	3761416.41	28.12657
495165.95	3761416.41	26.92344	495185.95	3761416.41	25.80059
495205.95	3761416.41	24.76201	495225.95	3761416.41	23.76145
495245.95	3761416.41	22.73771	495265.95	3761416.41	21.80336
495285.95	3761416.41	20.92161	495305.95	3761416.41	20.08193
495325.95	3761416.41	19.23235	495345.95	3761416.41	18.35468
495365.95	3761416.41	17.66313	495385.95	3761416.41	17.02255
495405.95	3761416.41	16.40565	495425.95	3761416.41	15.80111
495445.95	3761416.41	15.20430	495465.95	3761416.41	14.67266
495485.95	3761416.41	14.19471	495505.95	3761416.41	13.78131
495525.95	3761416.41	13.44127	494965.95	3761436.41	45.15885
494985.95	3761436.41	42.51314	495005.95	3761436.41	40.13932
495025.95	3761436.41	37.96935	495045.95	3761436.41	35.96727
495065.95	3761436.41	34.11372	495085.95	3761436.41	32.41760
495105.95	3761436.41	30.92430	495125.95	3761436.41	29.56421
495145.95	3761436.41	28.29336	495165.95		

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3761436.41       27.09269
         495185.95    3761436.41       25.95527                       495205.95
3761436.41       24.88347
         495225.95    3761436.41       23.82565                       495245.95
3761436.41       22.75787
         495265.95    3761436.41       21.86017                       495285.95
3761436.41       21.00230
         495305.95    3761436.41       20.15604                       495325.95
3761436.41       19.24693
         495345.95    3761436.41       18.24483                       495365.95
3761436.41       17.56058
         495385.95    3761436.41       16.95191                       495405.95
3761436.41       16.36364
         495425.95    3761436.41       15.78798                       495445.95
3761436.41       15.23212
         495465.95    3761436.41       14.72010                       495485.95
3761436.41       14.23645
         495505.95    3761436.41       13.78225                       495525.95
3761436.41       13.36270
         494845.95    3761456.41       71.79893                       494945.95
3761456.41       48.48978
         494965.95    3761456.41       45.49716                       494985.95
3761456.41       42.80752
         495005.95    3761456.41       40.39806                       495025.95
3761456.41       38.18948
         495045.95    3761456.41       36.14526                       495065.95
3761456.41       34.26617
         495085.95    3761456.41       32.55815                       495105.95
3761456.41       30.99696
         495125.95    3761456.41       29.58829                       495145.95
3761456.41       28.30464
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                      ***        08:18:30

                                 PAGE 144
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     VOL1        , VOL2
, L0000001    , L0000002    , L0000003    ,
                  L0000004    , L0000005    , L0000006    , L0000007    , L0000008
, L0000009    , L0000010    , L0000011    ,
                  L0000012    , L0000013    , L0000014    , L0000015    , L0000016
, L0000017    , L0000018    , L0000019    ,
                  L0000020    , L0000021    , L0000022    , L0000023    , L0000024
, L0000025    , L0000026    ,  . . .      ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
495165.95	3761456.41	27.11845	495185.95	3761456.41	25.98049
495205.95	3761456.41	24.89504	495225.95	3761456.41	23.80589
495245.95	3761456.41	22.71647	495265.95	3761456.41	21.84084
495285.95	3761456.41	20.98760	495305.95	3761456.41	20.12458
495325.95	3761456.41	19.18716	495345.95	3761456.41	18.16490
495365.95	3761456.41	17.51353	495385.95	3761456.41	16.92624
495405.95	3761456.41	16.34227	495425.95	3761456.41	15.75037
495445.95	3761456.41	15.15251	495465.95	3761456.41	14.67542
495485.95	3761456.41	14.21382	495505.95	3761456.41	13.75501
495525.95	3761456.41	13.30349	494865.95	3761476.41	66.06226
494885.95	3761476.41	60.60352	494905.95	3761476.41	56.06580
494925.95	3761476.41	52.17321	494945.95	3761476.41	48.75586
494965.95	3761476.41	45.71418	494985.95	3761476.41	42.97897
495005.95	3761476.41	40.54716	495025.95	3761476.41	38.29745
495045.95	3761476.41	36.22593	495065.95	3761476.41	34.31335
495085.95	3761476.41	32.59110	495105.95	3761476.41	31.00348
495125.95	3761476.41	29.55444	495145.95	3761476.41	28.24385
495165.95	3761476.41	27.04735	495185.95	3761476.41	25.88438
495205.95	3761476.41	24.77527	495225.95	3761476.41	23.67388
495245.95	3761476.41	22.61425	495265.95	3761476.41	21.74120

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         495285.95    3761476.41       20.88251                       495305.95
3761476.41       20.01401
         495325.95    3761476.41       19.08837                       495345.95
3761476.41       18.11513
         495365.95    3761476.41       17.49211                       495385.95
3761476.41       16.90428
         495405.95    3761476.41       16.30954                       495425.95
3761476.41       15.69384
         495445.95    3761476.41       15.05055                       495465.95
3761476.41       14.59790
         495485.95    3761476.41       14.15261                       495505.95
3761476.41       13.69525
         495525.95    3761476.41       13.23025                       494865.95
3761496.41       66.60725
         494885.95    3761496.41       60.94625                       494905.95
3761496.41       56.30520
         494925.95    3761496.41       52.32973                       494945.95
3761496.41       48.85087
         494965.95    3761496.41       45.78635                       494985.95
3761496.41       43.01305
         495005.95    3761496.41       40.55881                       495025.95
3761496.41       38.27837
         495045.95    3761496.41       36.17722                       495065.95
3761496.41       34.24598
         495085.95    3761496.41       32.49865                       495105.95
3761496.41       30.91994
         495125.95    3761496.41       29.45183                       495145.95
3761496.41       28.09968
         495165.95    3761496.41       26.86298                       495185.95
3761496.41       25.64240
         495205.95    3761496.41       24.50622                       495225.95
3761496.41       23.43798
         495245.95    3761496.41       22.44638                       495265.95
3761496.41       21.56018
         495285.95    3761496.41       20.68576                       495305.95
3761496.41       19.82351
         495325.95    3761496.41       18.94330                       495345.95
3761496.41       18.06579
         495365.95    3761496.41       17.46009                       495385.95
3761496.41       16.85996
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                      ***        08:18:30

                                 PAGE 145
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
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                                  INCLUDING SOURCE(S):     VOL1        , VOL2
, L0000001    , L0000002    , L0000003    ,
                 L0000004    , L0000005    , L0000006    , L0000007    , L0000008
, L0000009    , L0000010    , L0000011    ,
                 L0000012    , L0000013    , L0000014    , L0000015    , L0000016
, L0000017    , L0000018    , L0000019    ,
                 L0000020    , L0000021    , L0000022    , L0000023    , L0000024
, L0000025    , L0000026    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF VARIOUS  IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -
         495405.95    3761496.41       16.24739                      495425.95
3761496.41       15.60459
         495445.95    3761496.41       14.91524                      495465.95
3761496.41       14.47939
         495485.95    3761496.41       14.04943                      495505.95
3761496.41       13.60000
         495525.95    3761496.41       13.13195                      494865.95
3761516.41       66.76791
         494885.95    3761516.41       60.94303                      494905.95
3761516.41       56.26135
         494925.95    3761516.41       52.22991                      494945.95
3761516.41       48.72263
         494965.95    3761516.41       45.60535                      494985.95
3761516.41       42.81264
         495005.95    3761516.41       40.38122                      495025.95
3761516.41       38.10062
         495045.95    3761516.41       35.98199                      495065.95
3761516.41       34.03636
         495085.95    3761516.41       32.27561                      495105.95
3761516.41       30.69776
         495125.95    3761516.41       29.23176                      495145.95
3761516.41       27.87441
         495165.95    3761516.41       26.62696                      495185.95
3761516.41       25.42916
         495205.95    3761516.41       24.30674                      495225.95
3761516.41       23.25225
         495245.95    3761516.41       22.26504                      495265.95
3761516.41       21.35474
         495285.95    3761516.41       20.47406                      495305.95
3761516.41       19.62140
         495325.95    3761516.41       18.79127                      495345.95
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3761516.41       17.99491
         495365.95    3761516.41       17.35826                       495385.95
3761516.41       16.73896
         495405.95    3761516.41       16.11372                       495425.95
3761516.41       15.46196
         495445.95    3761516.41       14.76503                       495465.95
3761516.41       14.33198
         495485.95    3761516.41       13.90951                       495505.95
3761516.41       13.46691
         495525.95    3761516.41       13.00070                       494865.95
3761536.41       66.39655
         494885.95    3761536.41       60.52676                       494905.95
3761536.41       55.84482
         494925.95    3761536.41       51.81968                       494945.95
3761536.41       48.31464
         494965.95    3761536.41       45.17476                       494985.95
3761536.41       42.39282
         495005.95    3761536.41       39.98095                       495025.95
3761536.41       37.71213
         495045.95    3761536.41       35.59156                       495065.95
3761536.41       33.64903
         495085.95    3761536.41       31.90227                       495105.95
3761536.41       30.32847
         495125.95    3761536.41       28.86154                       495145.95
3761536.41       27.50136
         495165.95    3761536.41       26.25287                       495185.95
3761536.41       25.07946
         495205.95    3761536.41       23.97367                       495225.95
3761536.41       22.93494
         495245.95    3761536.41       21.96323                       495265.95
3761536.41       21.05657
         495285.95    3761536.41       20.18630                       495305.95
3761536.41       19.35665
         495325.95    3761536.41       18.56788                       495345.95
3761536.41       17.82581
         495365.95    3761536.41       17.16757                       495385.95
3761536.41       16.53886
         495405.95    3761536.41       15.91496                       495425.95
3761536.41       15.27801
         495445.95    3761536.41       14.60625                       495465.95
3761536.41       14.15003
         495485.95    3761536.41       13.72418                       495505.95
3761536.41       13.28460
         495525.95    3761536.41       12.82257                       494865.95
3761556.41       65.38901
         494885.95    3761556.41       59.58857                       494905.95
3761556.41       54.99855
         494925.95    3761556.41       51.02713                       494945.95
3761556.41       47.55407
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
494965.95	3761556.41	44.45244	494985.95	3761556.41	41.71113
495005.95	3761556.41	39.32215	495025.95	3761556.41	37.07222
495045.95	3761556.41	34.97698	495065.95	3761556.41	33.05420
495085.95	3761556.41	31.36341	495105.95	3761556.41	29.79425
495125.95	3761556.41	28.32541	495145.95	3761556.41	26.96817
495165.95	3761556.41	25.73291	495185.95	3761556.41	24.57773
495205.95	3761556.41	23.49696	495225.95	3761556.41	22.48376
495245.95	3761556.41	21.53829	495265.95	3761556.41	20.65686
495285.95	3761556.41	19.81796	495305.95	3761556.41	19.02589
495325.95	3761556.41	18.27488	495345.95	3761556.41	17.56348
495365.95	3761556.41	16.88853	495385.95	3761556.41	16.26015

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         495405.95    3761556.41       15.65384                    495425.95
3761556.41       15.05084
         495445.95    3761556.41       14.43320                    495465.95
3761556.41       13.93549
         495485.95    3761556.41       13.49377                    495505.95
3761556.41       13.05652
         495525.95    3761556.41       12.59956                    494845.95
3761576.41       71.27136
         494865.95    3761576.41       63.72701                    494885.95
3761576.41       58.11755
         494905.95    3761576.41       53.66374                    494925.95
3761576.41       49.80418
         494945.95    3761576.41       46.41361                    494965.95
3761576.41       43.38663
         494985.95    3761576.41       40.72556                    495005.95
3761576.41       38.37399
         495025.95    3761576.41       36.17182                    495045.95
3761576.41       34.14659
         495065.95    3761576.41       32.27884                    495085.95
3761576.41       30.66361
         495105.95    3761576.41       29.13418                    495125.95
3761576.41       27.68785
         495145.95    3761576.41       26.34578                    495165.95
3761576.41       25.10985
         495185.95    3761576.41       23.95765                    495205.95
3761576.41       22.88119
         495225.95    3761576.41       21.87818                    495245.95
3761576.41       20.94013
         495265.95    3761576.41       20.07265                    495285.95
3761576.41       19.25897
         495305.95    3761576.41       18.50494                    495325.95
3761576.41       17.79556
         495345.95    3761576.41       17.12129                    495365.95
3761576.41       16.47205
         495385.95    3761576.41       15.86643                    495405.95
3761576.41       15.29756
         495425.95    3761576.41       14.74887                    495445.95
3761576.41       14.18658
         495465.95    3761576.41       13.68814                    495485.95
3761576.41       13.23597
         495505.95    3761576.41       12.78738                    495525.95
3761576.41       12.33166
         494845.95    3761596.41       68.55322                    494865.95
3761596.41       61.41804
         494885.95    3761596.41       56.08159                    494905.95
3761596.41       51.84460
         494925.95    3761596.41       48.16200                    494945.95
3761596.41       44.90330
         494965.95    3761596.41       41.99201                    494985.95
3761596.41       39.44899
```

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   VOL1   , VOL2
, L0000001   , L0000002   , L0000003   ,
                  L0000004   , L0000005   , L0000006   , L0000007   , L0000008
, L0000009   , L0000010   , L0000011   ,
                  L0000012   , L0000013   , L0000014   , L0000015   , L0000016
, L0000017   , L0000018   , L0000019   ,
                  L0000020   , L0000021   , L0000022   , L0000023   , L0000024
, L0000025   , L0000026   , . . .   ,

                                     *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

3761596.41 14.37201
495445.95 3761596.41 13.86882 495465.95
3761596.41 13.38318
495485.95 3761596.41 12.93008 495505.95
3761596.41 12.48372
495525.95 3761596.41 12.03453 494845.95
3761616.41 65.23621
494865.95 3761616.41 58.56647 494885.95
3761616.41 53.57066
494905.95 3761616.41 49.61613 494925.95
3761616.41 46.16945
494945.95 3761616.41 43.08128 494965.95
3761616.41 40.31988
494985.95 3761616.41 37.91908 495005.95
3761616.41 35.73810
495025.95 3761616.41 33.71545 495045.95
3761616.41 31.88858
495065.95 3761616.41 30.19956 495085.95
3761616.41 28.75178
495105.95 3761616.41 27.34709 495125.95
3761616.41 26.02000
495145.95 3761616.41 24.77570 495165.95
3761616.41 23.61619
495185.95 3761616.41 22.54618 495205.95
3761616.41 21.54486
495225.95 3761616.41 20.61112 495245.95
3761616.41 19.73450
495265.95 3761616.41 18.90783 495285.95
3761616.41 18.14718
495305.95 3761616.41 17.43617 495325.95
3761616.41 16.77299
495345.95 3761616.41 16.14976 495365.95
3761616.41 15.55555
495385.95 3761616.41 14.96960 495405.95
3761616.41 14.42093
495425.95 3761616.41 13.91913 495445.95
3761616.41 13.47930
495465.95 3761616.41 13.02316 495485.95
3761616.41 12.58492
495505.95 3761616.41 12.14940 495525.95
3761616.41 11.71350
494845.95 3761636.41 61.52739 494865.95
3761636.41 55.33985
494885.95 3761636.41 50.72119 494905.95
3761636.41 47.07115
494925.95 3761636.41 43.87313 494945.95
3761636.41 40.97055
494965.95 3761636.41 38.39744 494985.95
3761636.41 36.17807
495005.95 3761636.41 34.13976 495025.95

3761636.41   32.25642
         495045.95   3761636.41   30.55114   495065.95
3761636.41   28.96186
         495085.95   3761636.41   27.58588   495105.95
3761636.41   26.26079
         495125.95   3761636.41   24.98751   495145.95
3761636.41   23.79109
         495165.95   3761636.41   22.69667   495185.95
3761636.41   21.68134
         495205.95   3761636.41   20.74053   495225.95
3761636.41   19.86270
         495245.95   3761636.41   19.03521   495265.95
3761636.41   18.25850
         495285.95   3761636.41   17.53298   495305.95
3761636.41   16.85878
         495325.95   3761636.41   16.23183   495345.95
3761636.41   15.64213

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   VOL1   , VOL2
, L0000001   , L0000002   , L0000003   ,
                  L0000004   , L0000005   , L0000006   , L0000007   , L0000008
, L0000009   , L0000010   , L0000011   ,
                  L0000012   , L0000013   , L0000014   , L0000015   , L0000016
, L0000017   , L0000018   , L0000019   ,
                  L0000020   , L0000021   , L0000022   , L0000023   , L0000024
, L0000025   , L0000026   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         495365.95   3761636.41   15.08098   495385.95
3761636.41   14.53155
         495405.95   3761636.41   13.98781   495425.95
3761636.41   13.47083

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         495445.95    3761636.41       13.01493                    495465.95
3761636.41       12.60345
         495485.95    3761636.41       12.19260                    495505.95
3761636.41       11.77501
         495525.95    3761636.41       11.35918                    494845.95
3761656.41       57.62254
         494865.95    3761656.41       51.91445                    494885.95
3761656.41       47.69927
         494905.95    3761656.41       44.35730                    494925.95
3761656.41       41.38793
         494945.95    3761656.41       38.70356                    494965.95
3761656.41       36.33429
         494985.95    3761656.41       34.30540                    495005.95
3761656.41       32.41587
         495025.95    3761656.41       30.67822                    495045.95
3761656.41       29.09576
         495065.95    3761656.41       27.61347                    495085.95
3761656.41       26.33088
         495105.95    3761656.41       25.09114                    495125.95
3761656.41       23.88499
         495145.95    3761656.41       22.75213                    495165.95
3761656.41       21.72755
         495185.95    3761656.41       20.77647                    495205.95
3761656.41       19.89747
         495225.95    3761656.41       19.07655                    495245.95
3761656.41       18.30387
         495265.95    3761656.41       17.57772                    495285.95
3761656.41       16.88768
         495305.95    3761656.41       16.24630                    495325.95
3761656.41       15.64763
         495345.95    3761656.41       15.08610                    495365.95
3761656.41       14.56465
         495385.95    3761656.41       14.05589                    495405.95
3761656.41       13.53586
         495425.95    3761656.41       13.01993                    495445.95
3761656.41       12.53880
         495465.95    3761656.41       12.15663                    495485.95
3761656.41       11.77321
         495505.95    3761656.41       11.37991                    495525.95
3761656.41       10.99165
         494845.95    3761676.41       53.71486                    494865.95
3761676.41       48.49083
         494885.95    3761676.41       44.63855                    494905.95
3761676.41       41.60556
         494925.95    3761676.41       38.85216                    494945.95
3761676.41       36.38441
         494965.95    3761676.41       34.21724                    494985.95
3761676.41       32.36423
         495005.95    3761676.41       30.62635                    495025.95
3761676.41       29.02019
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         495045.95    3761676.41       27.54923                       495065.95
3761676.41       26.18706
         495085.95    3761676.41       25.01647                       495105.95
3761676.41       23.86683
         495125.95    3761676.41       22.75341                       495145.95
3761676.41       21.70856
         495165.95    3761676.41       20.75418                       495185.95
3761676.41       19.87320
         495205.95    3761676.41       19.05353                       495225.95
3761676.41       18.28974
         495245.95    3761676.41       17.57213                       495265.95
3761676.41       16.89217
         495285.95    3761676.41       16.23141                       495305.95
3761676.41       15.61065
         495325.95    3761676.41       15.02697                       495345.95
3761676.41       14.47940
         495365.95    3761676.41       13.99993                       495385.95
3761676.41       13.53386
         495405.95    3761676.41       13.06633                       495425.95
3761676.41       12.58436
         495445.95    3761676.41       12.06887                       495465.95
3761676.41       11.68486
         495485.95    3761676.41       11.32691                       495505.95
3761676.41       10.97162
         495525.95    3761676.41       10.61471                       494845.95
3761696.41       49.96390
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                      ***        08:18:30

                                 PAGE 149
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     VOL1        , VOL2
, L0000001    , L0000002    , L0000003    ,
                  L0000004    , L0000005    , L0000006    , L0000007    , L0000008
, L0000009    , L0000010    , L0000011    ,
                  L0000012    , L0000013    , L0000014    , L0000015    , L0000016
, L0000017    , L0000018    , L0000019    ,
                  L0000020    , L0000021    , L0000022    , L0000023    , L0000024
, L0000025    , L0000026    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                           ** CONC OF VARIOUS  IN MICROGRAMS/M**3
                    **
```

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
494865.95	3761696.41	45.20093	494885.95	3761696.41	41.69352
494905.95	3761696.41	38.92934	494925.95	3761696.41	36.40613
494945.95	3761696.41	34.14203	494965.95	3761696.41	32.15652
494985.95	3761696.41	30.44997	495005.95	3761696.41	28.84265
495025.95	3761696.41	27.37115	495045.95	3761696.41	25.98487
495065.95	3761696.41	24.74038	495085.95	3761696.41	23.65866
495105.95	3761696.41	22.59129	495125.95	3761696.41	21.58316
495145.95	3761696.41	20.64099	495165.95	3761696.41	19.76995
495185.95	3761696.41	18.96312	495205.95	3761696.41	18.19077
495225.95	3761696.41	17.45812	495245.95	3761696.41	16.77912
495265.95	3761696.41	16.16764	495285.95	3761696.41	15.56362
495305.95	3761696.41	14.97621	495325.95	3761696.41	14.42158
495345.95	3761696.41	13.90708	495365.95	3761696.41	13.42757
495385.95	3761696.41	12.98383	495405.95	3761696.41	12.55684
495425.95	3761696.41	12.12517	495445.95	3761696.41	11.65460
495465.95	3761696.41	11.22511	495485.95	3761696.41	10.87183
495505.95	3761696.41	10.55156	495525.95	3761696.41	10.23666
494845.95	3761716.41	46.44367	494865.95	3761716.41	42.10803
494885.95	3761716.41	38.93186	494905.95	3761716.41	36.40485
494925.95	3761716.41	34.10018	494945.95	3761716.41	32.02584
494965.95	3761716.41	30.19649	494985.95	3761716.41	28.61988
495005.95	3761716.41	27.13604	495025.95	3761716.41	25.75804
495045.95	3761716.41	24.47549	495065.95		

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3761716.41       23.34090
         495085.95    3761716.41       22.33585                       495105.95
3761716.41       21.34081
         495125.95    3761716.41       20.42117                       495145.95
3761716.41       19.56941
         495165.95    3761716.41       18.77294                       495185.95
3761716.41       18.04327
         495205.95    3761716.41       17.31298                       495225.95
3761716.41       16.60670
         495245.95    3761716.41       15.95984                       495265.95
3761716.41       15.42077
         495285.95    3761716.41       14.87923                       495305.95
3761716.41       14.33276
         495325.95    3761716.41       13.81436                       495345.95
3761716.41       13.33762
         495365.95    3761716.41       12.86104                       495385.95
3761716.41       12.42940
         495405.95    3761716.41       12.03340                       495425.95
3761716.41       11.64967
         495445.95    3761716.41       11.24139                       495465.95
3761716.41       10.78222
         495485.95    3761716.41       10.43303                       495505.95
3761716.41       10.13912
         495525.95    3761716.41        9.85783                       495545.95
3761716.41        9.58413
         494845.95    3761736.41       43.14037                       494865.95
3761736.41       39.23792
         494885.95    3761736.41       36.39546                       494905.95
3761736.41       34.09586
         494925.95    3761736.41       31.98474                       494945.95
3761736.41       30.06476
         494965.95    3761736.41       28.37438                       494985.95
3761736.41       26.94573
         495005.95    3761736.41       25.55677                       495025.95
3761736.41       24.27078
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                      ***       08:18:30

                                PAGE 150
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                             *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                INCLUDING SOURCE(S):     VOL1        , VOL2
, L0000001    , L0000002    , L0000003    ,
                L0000004    , L0000005    , L0000006    , L0000007    , L0000008
, L0000009    , L0000010    , L0000011    ,
                L0000012    , L0000013    , L0000014    , L0000015    , L0000016
```

, L0000017   , L0000018   , L0000019   ,
                L0000020   , L0000021   , L0000022   , L0000023   , L0000024
, L0000025   , L0000026   , . . .   ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                      ** CONC OF VARIOUS IN MICROGRAMS/M**3
                **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

```
         495045.95    3761756.41       21.86702                       495065.95
3761756.41       20.88712
         495085.95    3761756.41       19.99442                       495105.95
3761756.41       19.11253
         495125.95    3761756.41       18.28737                       495145.95
3761756.41       17.52306
         495165.95    3761756.41       16.81655                       495185.95
3761756.41       16.20690
         495205.95    3761756.41       15.59838                       495225.95
3761756.41       14.98496
         495245.95    3761756.41       14.40773                       495265.95
3761756.41       13.95953
         495285.95    3761756.41       13.50511                       495305.95
3761756.41       13.04470
         495325.95    3761756.41       12.60881                       495345.95
3761756.41       12.20909
         495365.95    3761756.41       11.79194                       495385.95
3761756.41       11.38897
         495405.95    3761756.41       11.02888                       495425.95
3761756.41       10.70439
         495445.95    3761756.41       10.38341                       495465.95
3761756.41       10.01965
         495485.95    3761756.41        9.70636                       495505.95
3761756.41        9.42769
         495525.95    3761756.41        9.16802                       495545.95
3761756.41        8.90431
         495565.95    3761756.41        8.65964                       494845.95
3761776.41       36.77746
         494865.95    3761776.41       33.98359                       494885.95
3761776.41       31.80270
         494905.95    3761776.41       29.92936                       494925.95
3761776.41       28.23777
         494945.95    3761776.41       26.69171                       494965.95
3761776.41       25.28745
         494985.95    3761776.41       24.03038                       495005.95
3761776.41       22.83625
         495025.95    3761776.41       21.75806                       495045.95
3761776.41       20.74768
         495065.95    3761776.41       19.82074                       495085.95
3761776.41       18.97202
         495105.95    3761776.41       18.13744                       495125.95
3761776.41       17.34919
         495145.95    3761776.41       16.61871                       495165.95
3761776.41       15.94916
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                       ***       08:18:30
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): VOL1 , VOL2 , L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
495185.95	3761776.41	15.38698	495205.95	3761776.41	14.84644
495225.95	3761776.41	14.30138	495245.95	3761776.41	13.77067
495265.95	3761776.41	13.32765	495285.95	3761776.41	12.88356
495305.95	3761776.41	12.44846	495325.95	3761776.41	12.03849
495345.95	3761776.41	11.65735	495365.95	3761776.41	11.27495
495385.95	3761776.41	10.90473	495405.95	3761776.41	10.57006
495425.95	3761776.41	10.26116	495445.95	3761776.41	9.95364
495465.95	3761776.41	9.65716	495485.95	3761776.41	9.37403
495505.95	3761776.41	9.10767	495525.95	3761776.41	8.85283
495545.95	3761776.41	8.59409	495565.95	3761776.41	8.33355
494845.95	3761796.41	33.49075	494865.95	3761796.41	31.34102
494885.95	3761796.41	29.52247	494905.95	3761796.41	27.91163
494925.95	3761796.41	26.42612	494945.95	3761796.41	25.05639
494965.95	3761796.41	23.79037	494985.95		

3761796.41 22.62689
495005.95 3761796.41 21.54491 495025.95
3761796.41 20.54720
495045.95 3761796.41 19.61632 495065.95
3761796.41 18.74952
495085.95 3761796.41 17.94456 495105.95
3761796.41 17.17613
495125.95 3761796.41 16.44526 495145.95
3761796.41 15.76692
495165.95 3761796.41 15.14784 495185.95
3761796.41 14.62281
495205.95 3761796.41 14.13235 495225.95
3761796.41 13.64162
495245.95 3761796.41 13.15678 495265.95
3761796.41 12.72376
495285.95 3761796.41 12.30714 495305.95
3761796.41 11.90223
495325.95 3761796.41 11.51063 495345.95
3761796.41 11.13735
495365.95 3761796.41 10.78491 495385.95
3761796.41 10.44821
495405.95 3761796.41 10.13465 495425.95
3761796.41 9.83753
495445.95 3761796.41 9.55093 495465.95
3761796.41 9.27584
495485.95 3761796.41 9.01155 495505.95
3761796.41 8.75741
495525.95 3761796.41 8.51294 495545.95
3761796.41 8.27360
495565.95 3761796.41 8.02538 494965.95
3761816.41 22.42765
494985.95 3761816.41 21.35722 495005.95
3761816.41 20.36841
495025.95 3761816.41 19.45250 495045.95
3761816.41 18.59451
495065.95 3761816.41 17.78952 495085.95
3761816.41 17.03329
495105.95 3761816.41 16.31231 495125.95
3761816.41 15.63080
495145.95 3761816.41 15.00002 495165.95
3761816.41 14.42678
495185.95 3761816.41 13.92926 495205.95
3761816.41 13.45914
495225.95 3761816.41 12.99041 495245.95
3761816.41 12.53352
495265.95 3761816.41 12.11943 495285.95
3761816.41 11.72731
495305.95 3761816.41 11.35165 495325.95
3761816.41 10.98746
495345.95 3761816.41 10.63253 495365.95

3761816.41   10.29743
         495385.95   3761816.41   9.98750   495405.95
3761816.41   9.69741

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                   INCLUDING SOURCE(S):   VOL1   , VOL2
, L0000001   , L0000002   , L0000003   ,
                  L0000004   , L0000005   , L0000006   , L0000007   , L0000008
, L0000009   , L0000010   , L0000011   ,
                  L0000012   , L0000013   , L0000014   , L0000015   , L0000016
, L0000017   , L0000018   , L0000019   ,
                  L0000020   , L0000021   , L0000022   , L0000023   , L0000024
, L0000025   , L0000026   , . . .   ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF VARIOUS IN MICROGRAMS/M**3
                 **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         495425.95   3761816.41   9.42079   495445.95
3761816.41   9.15365
         495465.95   3761816.41   8.89557   495485.95
3761816.41   8.64462
         495505.95   3761816.41   8.40052   495525.95
3761816.41   8.16309
         495545.95   3761816.41   7.93332   495565.95
3761816.41   7.70212
         495125.95   3761836.41   14.89043   495145.95
3761836.41   14.30105
         495165.95   3761836.41   13.77037   495185.95
3761836.41   13.30036
         495205.95   3761836.41   12.83594   495225.95
3761836.41   12.37550
         495365.95   3761836.41   9.83470   495385.95
3761836.41   9.54802
         495405.95   3761836.41   9.28130   495425.95
3761836.41   9.02818

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         495445.95    3761836.41        8.78028                    495465.95
3761836.41        8.53464
         495485.95    3761836.41        8.29424                    495505.95
3761836.41        8.05902
         495525.95    3761836.41        7.82757                    495545.95
3761836.41        7.59996
         495565.95    3761836.41        7.38346                    495125.95
3761856.41       14.21665
         495145.95    3761856.41       13.65509                    495165.95
3761856.41       13.15158
         495185.95    3761856.41       12.72551                    495205.95
3761856.41       12.27561
         495225.95    3761856.41       11.82915                    495385.95
3761856.41        9.16751
         495405.95    3761856.41        8.92917                    495425.95
3761856.41        8.69194
         495445.95    3761856.41        8.45770                    495465.95
3761856.41        8.21810
         495485.95    3761856.41        7.98914                    495505.95
3761856.41        7.76358
         495525.95    3761856.41        7.53513                    495545.95
3761856.41        7.30199
         495565.95    3761856.41        7.07570                    495125.95
3761876.41       13.60224
         495145.95    3761876.41       13.06928                    495165.95
3761876.41       12.58604
         495185.95    3761876.41       12.18438                    495205.95
3761876.41       11.75344
         495225.95    3761876.41       11.32950                    495385.95
3761876.41        8.82543
         495405.95    3761876.41        8.60717                    495425.95
3761876.41        8.38157
         495445.95    3761876.41        8.15846                    495465.95
3761876.41        7.93114
         495485.95    3761876.41        7.71510                    495505.95
3761876.41        7.50059
         495525.95    3761876.41        7.28043                    495545.95
3761876.41        7.04826
         495565.95    3761876.41        6.81611                    495125.95
3761896.41       13.03586
         495145.95    3761896.41       12.53486                    495165.95
3761896.41       12.06804
         495185.95    3761896.41       11.67524                    495205.95
3761896.41       11.26281
         495225.95    3761896.41       10.86935                    495385.95
3761896.41        8.51281
         495405.95    3761896.41        8.31187                    495425.95
3761896.41        8.09567
         495445.95    3761896.41        7.87878                    495465.95
3761896.41        7.66845
```

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         495485.95    3761896.41        7.46441                       495505.95
3761896.41        7.26265
         495525.95    3761896.41        7.05362                       495545.95
3761896.41        6.82541
         495565.95    3761896.41        6.59389                       495585.95
3761896.41        6.41047
         495125.95    3761916.41       12.52163                       495145.95
3761916.41       12.05745
         495165.95    3761916.41       11.61474                       495185.95
3761916.41       11.24285
         495205.95    3761916.41       10.83976                       495225.95
3761916.41       10.47181
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                       ***        08:18:30

                                  PAGE 153
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     VOL1        , VOL2
, L0000001    , L0000002    , L0000003    ,
                  L0000004    , L0000005    , L0000006    , L0000007    , L0000008
, L0000009    , L0000010    , L0000011    ,
                  L0000012    , L0000013    , L0000014    , L0000015    , L0000016
, L0000017    , L0000018    , L0000019    ,
                  L0000020    , L0000021    , L0000022    , L0000023    , L0000024
, L0000025    , L0000026    ,  . . .      ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF VARIOUS  IN MICROGRAMS/M**3
                 **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         495385.95    3761916.41        8.19828                       495405.95
3761916.41        8.00163
         495425.95    3761916.41        7.79993                       495445.95
3761916.41        7.59551
         495465.95    3761916.41        7.39560                       495485.95
3761916.41        7.20140
         495505.95    3761916.41        7.00415                       495525.95
3761916.41        6.79743
         495545.95    3761916.41        6.58251                       495565.95
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3761916.41 6.36828
495585.95 3761916.41 6.19694 495125.95
3761936.41 12.02869
495145.95 3761936.41 11.59927 495165.95
3761936.41 11.18419
495185.95 3761936.41 10.83447 495205.95
3761936.41 10.45104
495225.95 3761936.41 10.10502 495145.95
3761956.41 11.15363
495165.95 3761956.41 10.76932 495185.95
3761956.41 10.44937
495205.95 3761956.41 10.09272 495225.95
3761956.41 9.76509
495145.95 3761976.41 10.73640 495165.95
3761976.41 10.37353
495185.95 3761976.41 10.07073 495205.95
3761976.41 9.73562
495225.95 3761976.41 9.42401 495145.95
3761996.41 10.33304
495165.95 3761996.41 9.99411 495185.95
3761996.41 9.70270
495205.95 3761996.41 9.38777 495225.95
3761996.41 9.09316
495145.95 3762016.41 9.94400 495165.95
3762016.41 9.62905
495185.95 3762016.41 9.34556 495205.95
3762016.41 9.04729
495225.95 3762016.41 8.76673 495145.95
3762036.41 9.57631
495165.95 3762036.41 9.27878 495185.95
3762036.41 8.99984
495205.95 3762036.41 8.71481 495225.95
3762036.41 8.44895
495145.95 3762056.41 9.23416 495165.95
3762056.41 8.94979
495185.95 3762056.41 8.67585 495205.95
3762056.41 8.40222
495225.95 3762056.41 8.14927 494031.10
3761757.45 35.17780
494022.49 3761743.26 35.07639 494020.46
3761734.14 35.37364
494013.36 3761724.00 35.13968 494002.72
3761712.34 34.50049
493991.57 3761703.22 33.59045 493980.42
3761692.58 32.75377
493969.78 3761686.49 31.80412 493957.61
3761681.43 30.70084
493943.93 3761673.82 29.50783 493926.19
3761672.81 27.92035
493913.51 3761671.29 26.87670 493899.83

3761669.77   25.82351
         493832.42   3761639.36   21.66280   493822.79
3761647.47   21.05307
         493811.13   3761658.11   20.32554   493809.61
3761669.26   20.15070
         493817.72   3761682.44   20.45403   493833.43
3761689.53   21.23098
         493853.71   3761695.11   22.33063   493871.45
3761693.08   23.47415
         493888.17   3761693.08   24.60418   493905.91
3761693.59   25.88777
         493920.61   3761694.60   27.02044   493939.36
3761698.15   28.52093
         493959.64   3761706.77   30.13204   493975.35
3761717.41   31.29198
         493983.46   3761726.03   31.75293   493991.06
3761738.19   31.96322
         494001.20   3761754.41   32.17044   493984.47
3761753.40   30.58221
         493980.42   3761746.81   30.50698   493970.79
3761734.64   30.13339

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                   INCLUDING SOURCE(S):   VOL1   , VOL2
, L0000001   , L0000002   , L0000003   ,
                  L0000004   , L0000005   , L0000006   , L0000007   , L0000008
, L0000009   , L0000010   , L0000011   ,
                  L0000012   , L0000013   , L0000014   , L0000015   , L0000016
, L0000017   , L0000018   , L0000019   ,
                  L0000020   , L0000021   , L0000022   , L0000023   , L0000024
, L0000025   , L0000026   , . . .   ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -

```
         493953.56    3761728.06       28.82076                  493937.34
3761717.41       27.78413
         493921.12    3761715.38       26.53207                  493906.93
3761711.33       25.56269
         493887.16    3761711.33       24.16756                  493870.43
3761711.33       23.07680
         493857.76    3761710.82       22.31029                  493843.06
3761709.81       21.47371
         493829.38    3761709.81       20.72313                  493806.57
3761701.19       19.66255
         493799.47    3761683.96       19.49443                  493797.45
3761663.18       19.56842
         493779.71    3761668.25       18.65959                  493775.14
3761687.51       18.29143
         493782.75    3761700.18       18.51971                  493793.39
3761716.90       18.81755
         493809.10    3761730.59       19.35789                  493821.27
3761732.11       19.92619
         493843.57    3761730.59       21.11832                  493874.99
3761733.63       22.87022
         493883.61    3761733.12       23.42172                  493904.90
3761734.64       24.79663
         493928.72    3761736.17       26.49266                  493941.39
3761745.80       27.15778
         493954.06    3761758.47       27.70206                  493931.76
3761757.45       26.01721
         493915.54    3761754.92       24.93963                  493903.38
3761754.41       24.13160
         493888.68    3761754.41       23.18672                  493872.97
3761753.91       22.24638
         493851.68    3761754.41       21.02917                  493835.46
3761751.88       20.23597
         493818.73    3761751.37       19.42232                  493742.20
3761651.01       17.01737
         493742.20    3761665.21       16.93033                  493742.20
3761680.41       16.82202
         493746.25    3761695.11       16.89314                  493750.31
3761708.80       16.95581
         493754.87    3761721.47       17.04823                  493757.91
3761732.62       17.06320
         493772.10    3761750.36       17.38897                  493760.44
3761749.34       16.94236
         493749.29    3761748.84       16.52270                  493730.54
3761748.84       15.83456
         493705.70    3761747.32       14.99218                  493712.80
3761770.63       14.87549
         493739.66    3761767.59       15.85221                  493757.40
3761769.11       16.47690
         493780.21    3761771.14       17.32356                  493801.50
3761770.12       18.22455
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         493830.90    3761773.17       19.48324                       493850.66
3761773.67       20.48020
         493872.46    3761773.67       21.68998                       493893.75
3761776.71       22.86887
         493908.45    3761775.70       23.82351                       493926.19
3761779.75       24.85937
         493937.84    3761778.74       25.70218                       493952.54
3761780.26       26.71715
         493967.75    3761779.75       27.91735                       493975.35
3761783.81       28.35000
         493989.54    3761780.26       29.72145                       494000.19
3761781.78       30.59876
         494014.88    3761785.33       31.77858                       494027.05
3761785.84       32.94695
         494049.35    3761786.34       35.26493                       494066.08
3761786.34       37.18351
         494171.35    3761821.06       48.05843                       494176.48
3761840.83       45.69750
         494171.35    3761886.24       38.78358                       494831.53
3761814.80       32.45027
         494846.31    3761570.20       71.80868                       494859.75
3761515.10       68.90831
         494839.59    3761451.93       73.89473                       494863.63
3761459.20       66.08432
         494887.97    3761461.34       59.71079                       494935.78
3761472.98       50.41366
         494961.89    3761422.37       45.37096                       494996.53
3761368.08       39.20112
         494991.46    3761326.95       37.97082                       495039.84
3761351.14       34.60038
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                      ***        08:18:30

                                 PAGE 155
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                 INCLUDING SOURCE(S):     VOL1        , VOL2
, L0000001    , L0000002    , L0000003    ,
                  L0000004    , L0000005    , L0000006    , L0000007    , L0000008
, L0000009    , L0000010    , L0000011    ,
                  L0000012    , L0000013    , L0000014    , L0000015    , L0000016
, L0000017    , L0000018    , L0000019    ,
                  L0000020    , L0000021    , L0000022    , L0000023    , L0000024
, L0000025    , L0000026    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF VARIOUS IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
495133.92	3761336.35	24.56071	495229.34	3761325.60	21.36689
495414.80	3761335.01	15.87995	495539.79	3761406.24	13.32307
495545.17	3761697.88	9.93476	495576.08	3761783.89	8.09451
495589.52	3761934.41	6.00305	495387.93	3761934.41	7.92236
495359.70	3761828.24	10.11922	495237.40	3761820.18	12.60574
495237.40	3762072.84	7.78440	495127.20	3762068.81	9.30276
495124.51	3761818.83	15.58729			

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OUTBOUND ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)

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        495205.95   3761376.41       31.01684  (23102622)                495225.95
3761376.41       31.69763  (23102622)
        495245.95   3761376.41       33.36242  (23102622)                495265.95
3761376.41       33.79756  (23102622)
        495285.95   3761376.41       35.27083  (23102622)                495305.95
3761376.41       35.08017  (23102622)
        495325.95   3761376.41       34.46502  (23102622)                495345.95
3761376.41       33.78470  (23102622)
        495365.95   3761376.41       33.18372  (23102622)                495385.95
3761376.41       32.57986  (23102622)
        495405.95   3761376.41       31.96449  (23102622)                495425.95
3761376.41       31.55332  (19022622)
        495445.95   3761376.41       31.31447  (19022622)                495465.95
3761376.41       30.91415  (19022622)
        495485.95   3761376.41       30.38713  (19022622)                494985.95
3761396.41       47.15861  (23102622)
        495005.95   3761396.41       47.03537  (23102622)                495025.95
3761396.41       45.98478  (23102622)
        495045.95   3761396.41       44.85559  (23102622)                495065.95
3761396.41       43.65231  (23102622)
        495085.95   3761396.41       41.43054  (23102622)                495105.95
3761396.41       36.92397  (23102622)
        495125.95   3761396.41       34.99816  (23102622)                495145.95
3761396.41       34.83742  (23102622)
        495165.95   3761396.41       34.16925  (23102622)                495185.95
3761396.41       33.14835  (23102622)
        495205.95   3761396.41       32.75537  (23102622)                495225.95
3761396.41       33.41020  (23102622)
        495245.95   3761396.41       34.17809  (23102622)                495265.95
3761396.41       34.02116  (23102622)
        495285.95   3761396.41       33.82084  (23102622)                495305.95
3761396.41       33.43912  (19120820)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                      ***        08:18:30

                                 PAGE 157
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OUTBOUND ***
                                 INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                 L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                 L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                 L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
495325.95	3761396.41	33.04596	(19120820)	495345.95	3761396.41	32.62607	(19120820)
495365.95	3761396.41	32.12210	(19120820)	495385.95	3761396.41	31.62276	(19120820)
495405.95	3761396.41	31.12819	(19120820)	495425.95	3761396.41	30.68816	(19022622)
495445.95	3761396.41	30.39282	(19022622)	495465.95	3761396.41	29.97446	(19022622)
495485.95	3761396.41	29.49697	(19022622)	495505.95	3761396.41	28.91805	(19022622)
494965.95	3761416.41	49.15482	(22122923)	494985.95	3761416.41	47.90817	(22122923)
495005.95	3761416.41	46.55025	(22122923)	495025.95	3761416.41	45.10168	(22122923)
495045.95	3761416.41	43.91177	(22122923)	495065.95	3761416.41	42.79646	(22122923)
495085.95	3761416.41	41.21392	(22120520)	495105.95	3761416.41	38.61464	(22122923)
495125.95	3761416.41	36.82899	(22122923)	495145.95	3761416.41	35.72472	(22120520)
495165.95	3761416.41	34.68151	(22120520)	495185.95	3761416.41	33.69909	(22120520)
495205.95	3761416.41	33.11134	(22120520)	495225.95	3761416.41	33.63150	(22120520)
495245.95	3761416.41	34.25941	(22120520)	495265.95	3761416.41	33.93976	(22120520)
495285.95	3761416.41	33.53799	(22120520)	495305.95	3761416.41	33.11599	(21021618)
495325.95	3761416.41	32.84646	(21021618)	495345.95	3761416.41	32.59377	(21021618)
495365.95	3761416.41	32.01906	(21021618)	495385.95	3761416.41	31.46615	(19120820)
495405.95	3761416.41	30.94583	(19120820)	495425.95	3761416.41	30.44593	(19120820)
495445.95	3761416.41	29.95525	(19120820)	495465.95	3761416.41	29.45121	(19120820)
495485.95	3761416.41	28.95274	(19120820)	495505.95	3761416.41	28.46435	(19120820)
495525.95	3761416.41	27.97805	(19120820)	494965.95			

3761436.41 48.38742 (22122923)
  494985.95 3761436.41 47.39003 (22122923) 495005.95
3761436.41 46.01525 (22122923)
  495025.95 3761436.41 44.69867 (22122923) 495045.95
3761436.41 43.66082 (22122923)
  495065.95 3761436.41 42.82106 (23020619) 495085.95
3761436.41 41.92341 (23020619)
  495105.95 3761436.41 40.43353 (22122923) 495125.95
3761436.41 38.84903 (22122923)
  495145.95 3761436.41 37.26010 (22122923) 495165.95
3761436.41 35.90286 (22122923)
  495185.95 3761436.41 34.92154 (22122923) 495205.95
3761436.41 34.21137 (22122923)
  495225.95 3761436.41 34.30164 (19122417) 495245.95
3761436.41 34.54189 (23120117)
  495265.95 3761436.41 33.96618 (23120117) 495285.95
3761436.41 33.47279 (23120117)
  495305.95 3761436.41 33.14651 (23120117) 495325.95
3761436.41 33.11542 (23120117)
  495345.95 3761436.41 33.09772 (23120117) 495365.95
3761436.41 32.49651 (23120117)
  495385.95 3761436.41 31.86298 (23120117) 495405.95
3761436.41 31.26178 (23120117)
  495425.95 3761436.41 30.71868 (22120817) 495445.95
3761436.41 30.24540 (22120817)
  495465.95 3761436.41 29.75491 (22120817) 495485.95
3761436.41 29.26981 (22120817)
  495505.95 3761436.41 28.78790 (22120817) 495525.95
3761436.41 28.30335 (22120817)
  494845.95 3761456.41 72.88961 (19061019) 494945.95
3761456.41 49.46076 (19021522)
  494965.95 3761456.41 48.69657 (19021522) 494985.95
3761456.41 46.97466 (19021522)
  495005.95 3761456.41 45.20966 (19122419) 495025.95
3761456.41 43.80877 (23020619)
  495045.95 3761456.41 43.16839 (23020619) 495065.95
3761456.41 42.64980 (23020619)
  495085.95 3761456.41 41.76162 (23020619) 495105.95
3761456.41 40.80806 (23020619)
  495125.95 3761456.41 39.62142 (23020619) 495145.95
3761456.41 38.26396 (23020619)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                          *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: OUTBOUND ***
                                INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        495165.95   3761456.41   36.81789 (23020619)   495185.95
3761456.41   35.79432 (23020619)
        495205.95   3761456.41   35.09965 (23020619)   495225.95
3761456.41   35.02165 (23020619)
        495245.95   3761456.41   35.00186 (23020619)   495265.95
3761456.41   34.18043 (23020619)
        495285.95   3761456.41   33.51303 (23020619)   495305.95
3761456.41   33.12721 (23120117)
        495325.95   3761456.41   33.11901 (23120117)   495345.95
3761456.41   33.06491 (23120117)
        495365.95   3761456.41   32.47613 (23120117)   495385.95
3761456.41   31.87415 (23120117)
        495405.95   3761456.41   31.31786 (23120117)   495425.95
3761456.41   30.80889 (23120117)
        495445.95   3761456.41   30.32558 (23120117)   495465.95
3761456.41   29.79166 (23120117)
        495485.95   3761456.41   29.27652 (23120117)   495505.95
3761456.41   28.81149 (22120817)
        495525.95   3761456.41   28.39547 (22120817)   494865.95
3761476.41   68.61962 (19061019)
        494885.95   3761476.41   58.11348 (19061019)   494905.95
3761476.41   54.31113 (22021918)
        494925.95   3761476.41   52.34602 (22021918)   494945.95
3761476.41   50.54952 (22021918)
        494965.95   3761476.41   48.81951 (21021918)   494985.95
3761476.41   47.37531 (21021918)
        495005.95   3761476.41   45.51598 (19021522)   495025.95
3761476.41   44.16136 (19021522)
        495045.95   3761476.41   42.98150 (19021522)   495065.95
3761476.41   41.96035 (22123004)

```
        495085.95   3761476.41       40.96061  (22123004)                495105.95
3761476.41       40.06008  (23020619)
        495125.95   3761476.41       39.22177  (23020619)                495145.95
3761476.41       38.26194  (23020619)
        495165.95   3761476.41       37.19976  (23020619)                495185.95
3761476.41       36.44997  (23020619)
        495205.95   3761476.41       35.86361  (23020619)                495225.95
3761476.41       35.58268  (23020619)
        495245.95   3761476.41       35.30730  (23020619)                495265.95
3761476.41       34.55948  (23020619)
        495285.95   3761476.41       33.96084  (23020619)                495305.95
3761476.41       33.53741  (23020619)
        495325.95   3761476.41       33.27621  (23020619)                495345.95
3761476.41       32.96295  (23121820)
        495365.95   3761476.41       32.26436  (23020619)                495385.95
3761476.41       31.59209  (23020619)
        495405.95   3761476.41       30.96678  (23020619)                495425.95
3761476.41       30.39653  (19021524)
        495445.95   3761476.41       30.00811  (19021524)                495465.95
3761476.41       29.49047  (23120117)
        495485.95   3761476.41       29.02491  (23120117)                495505.95
3761476.41       28.58394  (23120117)
        495525.95   3761476.41       28.15887  (23120117)                494865.95
3761496.41       70.92863  (19061019)
        494885.95   3761496.41       62.58201  (19061019)                494905.95
3761496.41       54.89543  (19061019)
        494925.95   3761496.41       52.17220  (22021918)                494945.95
3761496.41       50.80444  (22021918)
        494965.95   3761496.41       49.24320  (22021918)                494985.95
3761496.41       47.53181  (22021918)
        495005.95   3761496.41       45.69556  (21021918)                495025.95
3761496.41       44.64784  (21021918)
        495045.95   3761496.41       43.80641  (21021918)                495065.95
3761496.41       42.72993  (21021918)
        495085.95   3761496.41       41.38699  (21021918)                495105.95
3761496.41       39.98968  (22011802)
        495125.95   3761496.41       39.05494  (22123004)                495145.95
3761496.41       38.14978  (22123004)
        495165.95   3761496.41       37.16532  (22123004)                495185.95
3761496.41       36.53735  (23123019)
        495205.95   3761496.41       35.96314  (23121820)                495225.95
3761496.41       35.58738  (23121820)
        495245.95   3761496.41       35.14608  (23121820)                495265.95
3761496.41       34.52209  (23121820)
        495285.95   3761496.41       34.06123  (23121820)                495305.95
3761496.41       33.71122  (23121820)
        495325.95   3761496.41       33.48766  (23121820)                495345.95
3761496.41       33.23704  (23121820)
        495365.95   3761496.41       32.53324  (23121820)                495385.95
3761496.41       31.89017  (23121820)
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OUTBOUND ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
495405.95	3761496.41	31.33146	(23121820)	495425.95	3761496.41	30.85396	(23121820)
495445.95	3761496.41	30.40904	(23121820)	495465.95	3761496.41	29.76062	(23121820)
495485.95	3761496.41	29.13736	(23121820)	495505.95	3761496.41	28.55879	(23121820)
495525.95	3761496.41	28.01298	(23121820)	494865.95	3761516.41	66.62734	(19061019)
494885.95	3761516.41	61.64219	(19061019)	494905.95	3761516.41	56.31360	(19061019)
494925.95	3761516.41	50.89652	(19061019)	494945.95	3761516.41	49.71527	(22021918)
494965.95	3761516.41	48.68719	(22021918)	494985.95	3761516.41	47.56882	(22021918)
495005.95	3761516.41	45.80637	(22021918)	495025.95	3761516.41	44.51130	(22021918)
495045.95	3761516.41	43.79766	(21021918)	495065.95	3761516.41	43.13607	(21021918)
495085.95	3761516.41	42.08658	(21021918)	495105.95	3761516.41	40.84364	(21021918)
495125.95	3761516.41	39.62838	(21021918)	495145.95			

3761516.41 38.41102 (21021918)
495165.95 3761516.41 37.18151 (22011802) 495185.95
3761516.41 36.49154 (22123004)
495205.95 3761516.41 35.90161 (23123019) 495225.95
3761516.41 35.38457 (23123019)
495245.95 3761516.41 34.84217 (23123019) 495265.95
3761516.41 34.23101 (23123019)
495285.95 3761516.41 33.68493 (23123019) 495305.95
3761516.41 33.36283 (23121820)
495325.95 3761516.41 33.10846 (23121820) 495345.95
3761516.41 32.82407 (23121820)
495365.95 3761516.41 32.29142 (23121820) 495385.95
3761516.41 31.79279 (23121820)
495405.95 3761516.41 31.35868 (23121820) 495425.95
3761516.41 30.98958 (23121820)
495445.95 3761516.41 30.64042 (23121820) 495465.95
3761516.41 30.07232 (23121820)
495485.95 3761516.41 29.51792 (23121820) 495505.95
3761516.41 29.00389 (23121820)
495525.95 3761516.41 28.52406 (23121820) 494865.95
3761536.41 60.06151 (19061019)
494885.95 3761536.41 57.18908 (19061019) 494905.95
3761536.41 54.13303 (19061019)
494925.95 3761536.41 50.61205 (19061019) 494945.95
3761536.41 48.34546 (23123018)
494965.95 3761536.41 47.35347 (18021420) 494985.95
3761536.41 46.23123 (22021918)
495005.95 3761536.41 44.99893 (22021918) 495025.95
3761536.41 44.23560 (22021918)
495045.95 3761536.41 43.46461 (22021918) 495065.95
3761536.41 42.54151 (21021918)
495085.95 3761536.41 41.79624 (21021918) 495105.95
3761536.41 40.88998 (21021918)
495125.95 3761536.41 39.99078 (21021918) 495145.95
3761536.41 39.06099 (21021918)
495165.95 3761536.41 38.06123 (21021918) 495185.95
3761536.41 37.07963 (21021918)
495205.95 3761536.41 36.11230 (21021918) 495225.95
3761536.41 35.14073 (21021918)
495245.95 3761536.41 34.49284 (23123019) 495265.95
3761536.41 34.04056 (23123019)
495285.95 3761536.41 33.61707 (23123019) 495305.95
3761536.41 33.19237 (23123019)
495325.95 3761536.41 32.75213 (23123019) 495345.95
3761536.41 32.27666 (23123019)
495365.95 3761536.41 31.70841 (23123019) 495385.95
3761536.41 31.20997 (21121817)
495405.95 3761536.41 30.87356 (21121817) 495425.95
3761536.41 30.58663 (21121817)
495445.95 3761536.41 30.32902 (21121817) 495465.95

3761536.41   29.86238 (23121820)
        495485.95   3761536.41   29.40736 (23121820)   495505.95
3761536.41   28.97933 (23121820)
        495525.95   3761536.41   28.57756 (23121820)   494865.95
3761556.41   53.62547 (19061019)
        494885.95   3761556.41   51.74303 (19061019)   494905.95
3761556.41   50.04865 (19061019)
        494925.95   3761556.41   48.02111 (19061019)   494945.95
3761556.41   47.12600 (23123018)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OUTBOUND ***
                                   INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        494965.95   3761556.41   46.49866 (23123018)   494985.95
3761556.41   45.49296 (23123018)
        495005.95   3761556.41   43.92764 (19120407)   495025.95
3761556.41   43.15591 (19120407)
        495045.95   3761556.41   42.68286 (23021318)   495065.95
3761556.41   42.09203 (18021819)
        495085.95   3761556.41   41.19977 (18021819)   495105.95
3761556.41   40.27317 (18021819)
        495125.95   3761556.41   39.54182 (21021918)   495145.95
3761556.41   38.92609 (21021918)
        495165.95   3761556.41   38.19725 (21021918)   495185.95
3761556.41   37.44224 (21021918)

```
        495205.95   3761556.41       36.65856  (21021918)                 495225.95
3761556.41       35.84969  (21021918)
        495245.95   3761556.41       35.00736  (21021918)                 495265.95
3761556.41       34.13525  (21021918)
        495285.95   3761556.41       33.35469  (21010906)                 495305.95
3761556.41       32.68334  (21010906)
        495325.95   3761556.41       32.24106  (23123019)                 495345.95
3761556.41       31.86655  (23123019)
        495365.95   3761556.41       31.47386  (23123019)                 495385.95
3761556.41       31.04580  (23123019)
        495405.95   3761556.41       30.61537  (23123019)                 495425.95
3761556.41       30.19506  (23123019)
        495445.95   3761556.41       29.77802  (23123019)                 495465.95
3761556.41       29.38059  (21121817)
        495485.95   3761556.41       29.00773  (21121817)                 495505.95
3761556.41       28.64524  (21121817)
        495525.95   3761556.41       28.30818  (21121817)                 494845.95
3761576.41       51.07052  (18022619)
        494865.95   3761576.41       49.94298  (18022619)                 494885.95
3761576.41       48.99473  (18022619)
        494905.95   3761576.41       47.60882  (18022619)                 494925.95
3761576.41       46.69660  (18022619)
        494945.95   3761576.41       45.54919  (23123020)                 494965.95
3761576.41       44.94899  (23123018)
        494985.95   3761576.41       44.43136  (23123018)                 495005.95
3761576.41       43.61954  (23123018)
        495025.95   3761576.41       42.91507  (23123018)                 495045.95
3761576.41       42.17418  (19120407)
        495065.95   3761576.41       41.39013  (19120407)                 495085.95
3761576.41       40.40069  (23021318)
        495105.95   3761576.41       39.65892  (23021318)                 495125.95
3761576.41       39.03027  (18021819)
        495145.95   3761576.41       38.34784  (18021819)                 495165.95
3761576.41       37.56755  (18021819)
        495185.95   3761576.41       37.03911  (21021918)                 495205.95
3761576.41       36.51681  (21021918)
        495225.95   3761576.41       35.93705  (21021918)                 495245.95
3761576.41       35.30877  (21021918)
        495265.95   3761576.41       34.62335  (21021918)                 495285.95
3761576.41       33.90282  (21021918)
        495305.95   3761576.41       33.14179  (21021918)                 495325.95
3761576.41       32.38417  (21010906)
        495345.95   3761576.41       31.78483  (21010906)                 495365.95
3761576.41       31.17805  (21010906)
        495385.95   3761576.41       30.54034  (21010906)                 495405.95
3761576.41       30.15907  (23123019)
        495425.95   3761576.41       29.80876  (23123019)                 495445.95
3761576.41       29.47145  (23123019)
        495465.95   3761576.41       29.08457  (23123019)                 495485.95
3761576.41       28.67072  (23123019)
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        495505.95   3761576.41       28.25397  (23123019)                495525.95
3761576.41       27.83153  (23123019)
        494845.95   3761596.41       48.68671  (18022619)                494865.95
3761596.41       47.42295  (18022619)
        494885.95   3761596.41       46.68898  (18022619)                494905.95
3761596.41       45.75280  (18022619)
        494925.95   3761596.41       45.35012  (23123020)                494945.95
3761596.41       44.74551  (23123020)
        494965.95   3761596.41       43.93232  (23123020)                494985.95
3761596.41       42.76532  (23123018)
        495005.95   3761596.41       42.42999  (23123018)                495025.95
3761596.41       42.24843  (23123018)
        495045.95   3761596.41       41.78994  (23123018)                495065.95
3761596.41       41.01504  (23123018)
        495085.95   3761596.41       39.83589  (19120407)                495105.95
3761596.41       39.05158  (19120407)
        495125.95   3761596.41       38.31532  (23021318)                495145.95
3761596.41       37.79833  (23021318)
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OUTBOUND ***
                                INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF VARIOUS  IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        495165.95   3761596.41       37.19919  (21020818)                495185.95
3761596.41       36.60088  (21020818)
        495205.95   3761596.41       35.94187  (18021819)                495225.95
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3761596.41 35.25342 (21021918)
495245.95 3761596.41 34.83497 (21021918) 495265.95
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3761596.41 30.71250 (21010906)
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3761596.41 29.62319 (21010906)
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3761596.41 28.60603 (23120617)
495485.95 3761596.41 28.15671 (23123019) 495505.95
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3761616.41 46.38194 (18022619)
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3761616.41 44.46309 (23123020)
494905.95 3761616.41 43.73225 (23123020) 494925.95
3761616.41 43.59132 (23123020)
494945.95 3761616.41 43.33574 (23123020) 494965.95
3761616.41 42.93642 (23123020)
494985.95 3761616.41 42.24428 (23123020) 495005.95
3761616.41 41.32188 (23123020)
495025.95 3761616.41 40.94874 (23123018) 495045.95
3761616.41 40.71976 (23123018)
495065.95 3761616.41 40.28938 (23123018) 495085.95
3761616.41 39.47828 (23123018)
495105.95 3761616.41 38.70092 (23123018) 495125.95
3761616.41 37.85371 (23123018)
495145.95 3761616.41 37.23034 (19120407) 495165.95
3761616.41 36.54318 (22022518)
495185.95 3761616.41 36.06538 (22022518) 495205.95
3761616.41 35.53834 (21020818)
495225.95 3761616.41 35.01567 (21020818) 495245.95
3761616.41 34.42415 (21020818)
495265.95 3761616.41 33.77077 (21020818) 495285.95
3761616.41 33.14183 (22022020)
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3761616.41 32.27731 (21021918)
495345.95 3761616.41 31.80419 (21021918) 495365.95
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495385.95 3761616.41 30.82492 (18021419) 495405.95
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3761616.41 29.24076 (18021419)
495465.95 3761616.41 28.67030 (18021419) 495485.95
3761616.41 28.16983 (22120717)
495505.95 3761616.41 27.79665 (22120717) 495525.95

3761616.41   27.41188 (22120717)
        494845.95   3761636.41   45.34632 (22012818)   494865.95
3761636.41   43.69374 (22012818)
        494885.95   3761636.41   42.51691 (22121117)   494905.95
3761636.41   41.88571 (23123020)
        494925.95   3761636.41   41.83184 (23123020)   494945.95
3761636.41   41.76085 (23123020)
        494965.95   3761636.41   41.59958 (23123020)   494985.95
3761636.41   41.17919 (23123020)
        495005.95   3761636.41   40.70646 (23123020)   495025.95
3761636.41   40.27122 (23122217)
        495045.95   3761636.41   39.60947 (23122217)   495065.95
3761636.41   38.99293 (23123018)
        495085.95   3761636.41   38.55547 (23123018)   495105.95
3761636.41   38.10647 (23123018)
        495125.95   3761636.41   37.61642 (23123018)   495145.95
3761636.41   37.00990 (23123018)
        495165.95   3761636.41   36.23815 (23123018)   495185.95
3761636.41   35.60813 (19120407)
        495205.95   3761636.41   35.01627 (22022518)   495225.95
3761636.41   34.58677 (22022518)
        495245.95   3761636.41   34.08469 (22022518)   495265.95
3761636.41   33.54837 (21020818)
        495285.95   3761636.41   33.02716 (21020818)   495305.95
3761636.41   32.43834 (21020818)
        495325.95   3761636.41   31.82373 (22022020)   495345.95
3761636.41   31.30612 (22022020)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                             *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OUTBOUND ***
                                INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF VARIOUS IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
495365.95	3761636.41	30.77912	(21021918)	495385.95	3761636.41	30.40421	(18021419)
495405.95	3761636.41	30.10839	(18021419)	495425.95	3761636.41	29.76628	(18021419)
495445.95	3761636.41	29.35149	(18021419)	495465.95	3761636.41	28.88812	(18021419)
495485.95	3761636.41	28.41328	(18021419)	495505.95	3761636.41	27.92727	(18021419)
495525.95	3761636.41	27.41724	(18021419)	494845.95	3761656.41	44.10095	(22012818)
494865.95	3761656.41	42.78721	(22012818)	494885.95	3761656.41	41.54690	(22012818)
494905.95	3761656.41	40.37886	(22121117)	494925.95	3761656.41	40.02702	(23123020)
494945.95	3761656.41	40.04348	(23123020)	494965.95	3761656.41	40.03060	(23123020)
494985.95	3761656.41	39.80390	(23123020)	495005.95	3761656.41	39.63261	(23123020)
495025.95	3761656.41	39.56501	(23123020)	495045.95	3761656.41	39.04066	(23122217)
495065.95	3761656.41	38.50186	(23122217)	495085.95	3761656.41	37.58221	(23122217)
495105.95	3761656.41	37.01413	(23123018)	495125.95	3761656.41	36.80906	(23123018)
495145.95	3761656.41	36.49106	(23123018)	495165.95	3761656.41	36.00157	(23123018)
495185.95	3761656.41	35.38618	(23123018)	495205.95	3761656.41	34.64792	(23123018)
495225.95	3761656.41	34.01216	(19120407)	495245.95	3761656.41	33.48729	(22022518)
495265.95	3761656.41	33.11837	(22022518)	495285.95	3761656.41	32.68434	(22022518)
495305.95	3761656.41	32.17214	(22022518)	495325.95	3761656.41	31.65127	(21020818)
495345.95	3761656.41	31.14385	(21020818)	495365.95	3761656.41	30.58139	(21020818)
495385.95	3761656.41	30.11097	(22022020)	495405.95	3761656.41	29.66483	(22022020)
495425.95	3761656.41	29.22446	(18021419)	495445.95	3761656.41	28.98476	(18021419)
495465.95	3761656.41	28.65581	(18021419)	495485.95	3761656.41	28.30780	(18021419)
495505.95	3761656.41	27.94285	(18021419)	495525.95	3761656.41	27.54827	(18021419)

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        494845.95   3761676.41       42.89595  (22012818)                494865.95
3761676.41       41.66196  (22012818)
        494885.95   3761676.41       40.84658  (22012818)                494905.95
3761676.41       39.65156  (22012818)
        494925.95   3761676.41       38.88381  (18022306)                494945.95
3761676.41       38.59634  (18022306)
        494965.95   3761676.41       38.32321  (23123020)                494985.95
3761676.41       38.25308  (23123020)
        495005.95   3761676.41       38.35627  (23123020)                495025.95
3761676.41       38.55550  (23123020)
        495045.95   3761676.41       38.22539  (23123020)                495065.95
3761676.41       37.86635  (23122217)
        495085.95   3761676.41       37.24985  (23122217)                495105.95
3761676.41       36.62337  (23122217)
        495125.95   3761676.41       35.92979  (23122217)                495145.95
3761676.41       35.45107  (23123018)
        495165.95   3761676.41       35.20902  (23123018)                495185.95
3761676.41       34.84692  (23123018)
        495205.95   3761676.41       34.37313  (23123018)                495225.95
3761676.41       33.79179  (23123018)
        495245.95   3761676.41       33.11367  (23123018)                495265.95
3761676.41       32.61624  (21020618)
        495285.95   3761676.41       32.28734  (21020618)                495305.95
3761676.41       31.86338  (21020618)
        495325.95   3761676.41       31.35080  (22022518)                495345.95
3761676.41       30.91412  (22022518)
        495365.95   3761676.41       30.39274  (22022518)                495385.95
3761676.41       29.90870  (21020818)
        495405.95   3761676.41       29.43703  (21020818)                495425.95
3761676.41       28.98672  (22022020)
        495445.95   3761676.41       28.60759  (22022020)                495465.95
3761676.41       28.15543  (22022020)
        495485.95   3761676.41       27.78215  (18021419)                495505.95
3761676.41       27.53653  (18021419)
        495525.95   3761676.41       27.26218  (18021419)                494845.95
3761696.41       41.73683  (22011418)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                       ***        08:18:30

                                  PAGE 163
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OUTBOUND ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                 L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
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L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF VARIOUS IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
494865.95	3761696.41	40.44122	(22012818)	494885.95	3761696.41	39.80691	(22012818)
494905.95	3761696.41	38.96557	(22012818)	494925.95	3761696.41	38.20956	(22012818)
494945.95	3761696.41	37.65554	(18022306)	494965.95	3761696.41	37.40255	(18022306)
494985.95	3761696.41	36.96470	(19022618)	495005.95	3761696.41	36.94501	(23123020)
495025.95	3761696.41	37.22978	(23123020)	495045.95	3761696.41	37.16597	(23123020)
495065.95	3761696.41	36.92889	(23123020)	495085.95	3761696.41	36.56182	(23122217)
495105.95	3761696.41	36.22019	(23122217)	495125.95	3761696.41	35.75992	(23122217)
495145.95	3761696.41	35.15178	(23122217)	495165.95	3761696.41	34.38101	(23122217)
495185.95	3761696.41	33.86993	(23123018)	495205.95	3761696.41	33.63619	(23123018)
495225.95	3761696.41	33.31144	(23123018)	495245.95	3761696.41	32.88066	(23123018)
495265.95	3761696.41	32.33570	(23123018)	495285.95	3761696.41	31.73699	(21020618)
495305.95	3761696.41	31.52578	(21020618)	495325.95	3761696.41	31.22799	(21020618)
495345.95	3761696.41	30.82967	(21020618)	495365.95	3761696.41	30.34329	(21020618)
495385.95	3761696.41	29.77251	(21020618)	495405.95	3761696.41	29.25020	(22022518)
495425.95	3761696.41	28.76946	(22022518)	495445.95	3761696.41	28.32684	(21020818)
495465.95	3761696.41	27.85564	(22022020)	495485.95	3761696.41	27.50972	(22022020)
495505.95	3761696.41	27.12714	(22022020)	495525.95	3761696.41	26.70756	(22022020)
494845.95	3761716.41	40.81721	(22011418)	494865.95			

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3761716.41       39.18156  (22012818)
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3761716.41       36.96288  (22012818)
        494965.95   3761716.41       36.46768  (18022306)                494985.95
3761716.41       36.18914  (18022306)
        495005.95   3761716.41       36.34211  (19022618)                495025.95
3761716.41       36.21655  (19022618)
        495045.95   3761716.41       35.85465  (23123020)                495065.95
3761716.41       35.79817  (23123020)
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3761716.41       35.42849  (23122217)
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3761716.41       34.80491  (23122217)
        495165.95   3761716.41       34.28645  (23122217)                495185.95
3761716.41       33.61122  (23122217)
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3761716.41       32.44074  (23123018)
        495245.95   3761716.41       32.22900  (23123018)                495265.95
3761716.41       31.88605  (23123018)
        495285.95   3761716.41       31.47802  (23123018)                495305.95
3761716.41       31.00447  (23123018)
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3761716.41       30.45297  (21020618)
        495365.95   3761716.41       30.19826  (21020618)                495385.95
3761716.41       29.83426  (21020618)
        495405.95   3761716.41       29.38145  (21020618)                495425.95
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3761716.41       27.82134  (21020618)
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3761716.41       26.81205  (21020818)
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3761716.41       26.12631  (22022020)
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3761736.41       38.27515  (22011418)
        494885.95   3761736.41       37.30609  (22012818)                494905.95
3761736.41       36.98534  (22012818)
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3761736.41       36.33933  (22012818)
        494965.95   3761736.41       35.82544  (22012818)                494985.95
3761736.41       35.28447  (21122320)
        495005.95   3761736.41       35.58350  (18022306)                495025.95
3761736.41       35.59277  (19022618)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                      ***        08:18:30
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OUTBOUND ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
495045.95	3761736.41	35.36338	(19022618)	495065.95	3761736.41	34.84028	(19022618)
495085.95	3761736.41	34.41788	(23123020)	495105.95	3761736.41	34.35218	(23123020)
495125.95	3761736.41	34.28335	(23122217)	495145.95	3761736.41	34.13884	(23122217)
495165.95	3761736.41	33.86498	(23122217)	495185.95	3761736.41	33.42075	(23122217)
495205.95	3761736.41	32.92360	(23122217)	495225.95	3761736.41	32.33341	(23122217)
495245.95	3761736.41	31.70108	(23011703)	495265.95	3761736.41	31.09999	(22022220)
495285.95	3761736.41	30.85404	(23123018)	495305.95	3761736.41	30.56865	(23123018)
495325.95	3761736.41	30.20545	(23123018)	495345.95	3761736.41	29.75696	(23123018)
495365.95	3761736.41	29.60981	(21020618)	495385.95	3761736.41	29.46183	(21020618)
495405.95	3761736.41	29.19973	(21020618)	495425.95	3761736.41	28.84738	(21020618)
495445.95	3761736.41	28.45383	(21020618)	495465.95	3761736.41	28.09156	(21020618)
495485.95	3761736.41	27.58835	(21020618)	495505.95	3761736.41	27.00380	(21020618)
495525.95	3761736.41	26.37008	(21020618)	495545.95	3761736.41	25.83164	(22022518)

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3761776.41 34.65569 (22012818)
494945.95 3761776.41 34.54811 (22012818) 494965.95
3761776.41 34.35346 (22012818)
494985.95 3761776.41 34.02132 (22012818) 495005.95
3761776.41 33.98887 (22012818)
495025.95 3761776.41 33.93799 (21122320) 495045.95
3761776.41 33.75621 (21122320)
495065.95 3761776.41 33.57279 (19022618) 495085.95
3761776.41 33.35702 (19022618)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OUTBOUND ***
                                   INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                      ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        495185.95   3761776.41   32.06684 (23010506)   495205.95
3761776.41   31.90743 (23010506)
        495225.95   3761776.41   31.68595 (23010506)   495245.95
3761776.41   31.36812 (23010506)
        495265.95   3761776.41   30.86147 (23010506)   495285.95
3761776.41   30.29950 (23122217)
        495305.95   3761776.41   29.73296 (23011703)   495325.95
3761776.41   29.15627 (23011703)
        495345.95   3761776.41   28.84905 (22022220)   495365.95
3761776.41   28.65408 (22022220)
        495385.95   3761776.41   28.38567 (22022220)   495405.95
3761776.41   28.02472 (22022220)
        495425.95   3761776.41   27.66841 (21020618)   495445.95
3761776.41   27.59145 (21020618)
        495465.95   3761776.41   27.45694 (21020618)   495485.95
3761776.41   27.26173 (21020618)
        495505.95   3761776.41   27.00337 (21020618)   495525.95

3761776.41 26.68864 (21020618)
495545.95 3761776.41 26.33033 (21020618) 495565.95
3761776.41 25.92412 (21020618)
494845.95 3761796.41 36.27119 (22011418) 494865.95
3761796.41 35.58954 (22011418)
494885.95 3761796.41 35.16306 (22011418) 494905.95
3761796.41 34.42684 (22011418)
494925.95 3761796.41 33.82811 (22012818) 494945.95
3761796.41 33.79323 (22012818)
494965.95 3761796.41 33.70722 (22012818) 494985.95
3761796.41 33.62575 (22012818)
495005.95 3761796.41 33.85198 (22012818) 495025.95
3761796.41 33.32386 (22012818)
495045.95 3761796.41 33.26839 (21122320) 495065.95
3761796.41 33.08909 (21122320)
495085.95 3761796.41 32.83280 (19022618) 495105.95
3761796.41 32.71187 (19022618)
495125.95 3761796.41 32.45838 (19022618) 495145.95
3761796.41 32.02991 (19022618)
495165.95 3761796.41 31.41048 (19022618) 495185.95
3761796.41 31.03938 (23010506)
495205.95 3761796.41 31.03357 (23010506) 495225.95
3761796.41 30.96740 (23010506)
495245.95 3761796.41 30.82523 (23010506) 495265.95
3761796.41 30.54597 (23010506)
495285.95 3761796.41 30.16799 (23010506) 495305.95
3761796.41 29.69541 (23010506)
495325.95 3761796.41 29.12619 (23010506) 495345.95
3761796.41 28.62702 (23011703)
495365.95 3761796.41 28.06294 (23011703) 495385.95
3761796.41 27.85583 (22022220)
495405.95 3761796.41 27.65952 (22022220) 495425.95
3761796.41 27.39048 (22022220)
495445.95 3761796.41 27.05396 (22022220) 495465.95
3761796.41 26.68771 (21020618)
495485.95 3761796.41 26.63171 (21020618) 495505.95
3761796.41 26.52032 (21020618)
495525.95 3761796.41 26.35368 (21020618) 495545.95
3761796.41 26.13543 (21020618)
495565.95 3761796.41 25.87376 (21020618) 494965.95
3761816.41 32.93374 (22012818)
494985.95 3761816.41 33.11435 (22012818) 495005.95
3761816.41 33.38477 (22012818)
495025.95 3761816.41 33.03499 (22012818) 495045.95
3761816.41 32.57085 (21122320)
495065.95 3761816.41 32.55175 (21122320) 495085.95
3761816.41 32.39632 (21122320)
495105.95 3761816.41 32.10514 (21122320) 495125.95
3761816.41 32.00983 (19022618)
495145.95 3761816.41 31.76997 (19022618) 495165.95

3761816.41   31.35210 (19022618)
        495185.95   3761816.41   30.72728 (19022618)   495205.95
3761816.41   29.96720 (19022618)
        495225.95   3761816.41   30.05268 (23010506)   495245.95
3761816.41   30.07560 (23010506)
        495265.95   3761816.41   29.98403 (23010506)   495285.95
3761816.41   29.79378 (23010506)
        495305.95   3761816.41   29.50657 (23010506)   495325.95
3761816.41   29.12486 (23010506)
        495345.95   3761816.41   28.64959 (23010506)   495365.95
3761816.41   28.07555 (23011703)
        495385.95   3761816.41   27.59990 (23011703)   495405.95
3761816.41   27.03812 (23011703)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OUTBOUND ***
                                 INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                 L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                 L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                 L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                      ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        495425.95   3761816.41   26.89897 (22022220)   495445.95
3761816.41   26.71517 (22022220)
        495465.95   3761816.41   26.46608 (22022220)   495485.95
3761816.41   26.15336 (22022220)
        495505.95   3761816.41   25.77829 (22022220)   495525.95
3761816.41   25.73773 (21020618)
        495545.95   3761816.41   25.65477 (21020618)   495565.95
3761816.41   25.52316 (21020618)

```
        495125.95   3761836.41       31.46381  (21122320)                495145.95
3761836.41       31.26452  (19022618)
        495165.95   3761836.41       31.02700  (19022618)                495185.95
3761836.41       30.61208  (19022618)
        495205.95   3761836.41       30.09188  (19022618)                495225.95
3761836.41       29.46406  (19022618)
        495365.95   3761836.41       28.13569  (23010506)                495385.95
3761836.41       27.64590  (22122817)
        495405.95   3761836.41       27.12928  (22122817)                495425.95
3761836.41       26.60829  (23011703)
        495445.95   3761836.41       26.20532  (23110217)                495465.95
3761836.41       25.98822  (22022220)
        495485.95   3761836.41       25.82300  (22022220)                495505.95
3761836.41       25.59510  (22022220)
        495525.95   3761836.41       25.30477  (22022220)                495545.95
3761836.41       24.95198  (22022220)
        495565.95   3761836.41       24.89018  (21020618)                495125.95
3761856.41       31.04613  (21122320)
        495145.95   3761856.41       30.80290  (21122320)                495165.95
3761856.41       30.49539  (19022618)
        495185.95   3761856.41       30.24576  (19022618)                495205.95
3761856.41       29.93465  (19022618)
        495225.95   3761856.41       29.51704  (19022618)                495385.95
3761856.41       27.55141  (23010506)
        495405.95   3761856.41       27.14254  (22122817)                495425.95
3761856.41       26.70409  (22122817)
        495445.95   3761856.41       26.19726  (22122817)                495465.95
3761856.41       25.70738  (23110217)
        495485.95   3761856.41       25.41731  (21020718)                495505.95
3761856.41       25.12239  (22022220)
        495525.95   3761856.41       24.97408  (22022220)                495545.95
3761856.41       24.76218  (22022220)
        495565.95   3761856.41       24.48286  (22022220)                495125.95
3761876.41       30.42284  (21122320)
        495145.95   3761876.41       30.35649  (21122320)                495165.95
3761876.41       30.11973  (21122320)
        495185.95   3761876.41       29.67507  (19022618)                495205.95
3761876.41       29.54643  (19022618)
        495225.95   3761876.41       29.31151  (19022618)                495385.95
3761876.41       27.18043  (23010506)
        495405.95   3761876.41       26.92138  (23010506)                495425.95
3761876.41       26.59844  (22122817)
        495445.95   3761876.41       26.24962  (22122817)                495465.95
3761876.41       25.84002  (22122817)
        495485.95   3761876.41       25.35151  (22122817)                495505.95
3761876.41       24.95157  (21020718)
        495525.95   3761876.41       24.71607  (21020718)                495545.95
3761876.41       24.43611  (21020718)
        495565.95   3761876.41       24.15413  (22022220)                495125.95
3761896.41       29.61968  (21122320)
```

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        495145.95   3761896.41       29.70780  (21122320)               495165.95
3761896.41       29.65472  (21122320)
        495185.95   3761896.41       29.40189  (21122320)               495205.95
3761896.41       29.06824  (21122320)
        495225.95   3761896.41       28.87379  (19022618)               495385.95
3761896.41       26.55757  (23010506)
        495405.95   3761896.41       26.45273  (23010506)               495425.95
3761896.41       26.27795  (23010506)
        495445.95   3761896.41       26.04222  (22122817)               495465.95
3761896.41       25.77573  (22122817)
        495485.95   3761896.41       25.43457  (22122817)               495505.95
3761896.41       25.02538  (22122817)
        495525.95   3761896.41       24.55878  (22122817)               495545.95
3761896.41       24.31387  (21020718)
        495565.95   3761896.41       24.11024  (21020718)               495585.95
3761896.41       23.79257  (21020718)
        495125.95   3761916.41       29.23564  (22012818)               495145.95
3761916.41       28.85807  (21122320)
        495165.95   3761916.41       28.96431  (21122320)               495185.95
3761916.41       28.88022  (21122320)
        495205.95   3761916.41       28.73721  (21122320)               495225.95
3761916.41       28.43995  (21122320)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                      ***        08:18:30

                                PAGE 167
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OUTBOUND ***
                                INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF VARIOUS  IN MICROGRAMS/M**3
                **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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- - - -

3761734.14   25.21907 (23022717)
        494013.36   3761724.00   26.84372 (23022717)   494002.72
3761712.34   28.66475 (23022717)
        493991.57   3761703.22   29.98566 (23022717)   493980.42
3761692.58   31.35978 (23022717)
        493969.78   3761686.49   31.92818 (23022717)   493957.61
3761681.43   32.17518 (23022717)
        493943.93   3761673.82   32.54379 (23022717)   493926.19
3761672.81   31.81993 (23022717)
        493913.51   3761671.29   31.33742 (23022717)   493899.83
3761669.77   30.75524 (23022717)
        493832.42   3761639.36   28.11459 (23022717)   493822.79
3761647.47   27.30939 (23022717)
        493811.13   3761658.11   26.35882 (23022717)   493809.61
3761669.26   25.94618 (23022717)
        493817.72   3761682.44   25.83931 (23022717)   493833.43
3761689.53   26.20552 (23022717)
        493853.71   3761695.11   26.73335 (23022717)   493871.45
3761693.08   27.60231 (23022717)
        493888.17   3761693.08   28.27661 (23022717)   493905.91
3761693.59   28.91521 (23022717)
        493920.61   3761694.60   29.34401 (23022717)   493939.36
3761698.15   29.54818 (23022717)
        493959.64   3761706.77   28.96236 (23022717)   493975.35
3761717.41   27.73616 (23022717)
        493983.46   3761726.03   26.56799 (23022717)   493991.06
3761738.19   24.83842 (23022717)
        494001.20   3761754.41   23.51726 (23022503)   493984.47
3761753.40   22.91271 (23022503)
        493980.42   3761746.81   23.71601 (23022717)   493970.79
3761734.64   25.36502 (23022717)

                             *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OUTBOUND ***
                                INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
493953.56	3761728.06	26.13765	(23022717)	493937.34	3761717.41	27.23102	(23022717)
493921.12	3761715.38	27.13817	(23022717)	493906.93	3761711.33	27.21387	(23022717)
493887.16	3761711.33	26.65621	(23022717)	493870.43	3761711.33	26.14577	(23022717)
493857.76	3761710.82	25.77724	(23022717)	493843.06	3761709.81	25.35473	(23022717)
493829.38	3761709.81	24.87803	(23022717)	493806.57	3761701.19	24.49845	(23022717)
493799.47	3761683.96	24.93685	(23022717)	493797.45	3761663.18	25.48672	(23022717)
493779.71	3761668.25	24.45082	(23022717)	493775.14	3761687.51	23.73354	(23022717)
493782.75	3761700.18	23.61062	(23022717)	493793.39	3761716.90	23.25496	(23022717)
493809.10	3761730.59	22.98449	(23022717)	493821.27	3761732.11	23.22146	(23022717)
493843.57	3761730.59	23.90461	(23022717)	493874.99	3761733.63	24.37231	(23022717)
493883.61	3761733.12	24.58779	(23022717)	493904.90	3761734.64	24.80524	(23022717)
493928.72	3761736.17	24.93753	(23022717)	493941.39	3761745.80	23.89775	(23022717)
493954.06	3761758.47	22.37033	(23022717)	493931.76	3761757.45	22.53122	(23022717)
493915.54	3761754.92	22.77011	(23022717)	493903.38	3761754.41	22.75546	(23022717)
493888.68	3761754.41	22.63851	(23022717)	493872.97	3761753.91	22.52083	(23022717)
493851.68	3761754.41	22.19623	(23022717)	493835.46	3761751.88	22.13489	(23022717)
493818.73	3761751.37	21.86016	(23022717)	493742.20	3761651.01	22.72341	(23022717)
493742.20	3761665.21	22.65083	(23022717)	493742.20	3761680.41	22.45133	(23022717)
493746.25	3761695.11	22.31326	(23022717)	493750.31	3761708.80	22.07267	(23022717)
493754.87	3761721.47	21.77166	(23022717)	493757.91	3761732.62	21.39759	(23022717)

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        493772.10   3761750.36       20.90427  (23022717)               493760.44
3761749.34       20.67435  (23022717)
        493749.29   3761748.84       20.41831  (23022717)               493730.54
3761748.84       19.93271  (23022717)
        493705.70   3761747.32       19.32198  (23022717)               493712.80
3761770.63       18.56674  (23022717)
        493739.66   3761767.59       19.28410  (23022717)               493757.40
3761769.11       19.56082  (23022717)
        493780.21   3761771.14       19.85431  (23022717)               493801.50
3761770.12       20.26210  (23022717)
        493830.90   3761773.17       20.42423  (23022717)               493850.66
3761773.67       20.57722  (23022717)
        493872.46   3761773.67       20.72262  (23022717)               493893.75
3761776.71       20.49392  (23022717)
        493908.45   3761775.70       20.58459  (23022717)               493926.19
3761779.75       20.20238  (23022503)
        493937.84   3761778.74       20.65209  (23022503)               493952.54
3761780.26       21.11867  (23022503)
        493967.75   3761779.75       21.57739  (23022503)               493975.35
3761783.81       21.66828  (23022503)
        493989.54   3761780.26       22.21047  (23022502)               494000.19
3761781.78       22.71462  (23022502)
        494014.88   3761785.33       23.24183  (23022502)               494027.05
3761785.84       23.97603  (22123116)
        494049.35   3761786.34       27.33847  (22123116)               494066.08
3761786.34       29.75886  (22123116)
        494171.35   3761821.06       32.06628  (22123116)               494176.48
3761840.83       30.00057  (18101617)
        494171.35   3761886.24       26.04023  (18101617)               494831.53
3761814.80       35.08637  (22011418)
        494846.31   3761570.20       52.18190  (19061019)               494859.75
3761515.10       68.43800  (19061019)
        494839.59   3761451.93       74.99897  (19061019)               494863.63
3761459.20       62.54202  (19061019)
        494887.97   3761461.34       55.02538  (22021918)               494935.78
3761472.98       51.24869  (22021918)
        494961.89   3761422.37       49.27929  (22122923)               494996.53
3761368.08       47.57416  (23102622)
        494991.46   3761326.95       48.84195  (23120721)               495039.84
3761351.14       48.72561  (23102622)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                      ***        08:18:30

                                  PAGE 169
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OUTBOUND ***
```

INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF VARIOUS IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
495133.92	3761336.35	27.57672	(22011318)	495229.34	3761325.60	28.12126	(23120721)
495414.80	3761335.01	34.17942	(21070905)	495539.79	3761406.24	27.65921	(19120820)
495545.17	3761697.88	26.35435	(18021419)	495576.08	3761783.89	25.74257	(21020618)
495589.52	3761934.41	23.49993	(22122817)	495387.93	3761934.41	25.03640	(21021204)
495359.70	3761828.24	28.30508	(23010506)	495237.40	3761820.18	29.90174	(23010506)
495237.40	3762072.84	25.53553	(18120817)	495127.20	3762068.81	26.04017	(21011921)
495124.51	3761818.83	31.94452	(19022618)				

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: INBOUND ***
INCLUDING SOURCE(S): L0000423 , L0000424
, L0000425 , L0000426 , L0000427 ,
L0000428 , L0000429 , L0000430 , L0000431 , L0000432
, L0000433 , L0000434 , L0000435 ,
L0000436 , L0000437 , L0000438 , L0000439 , L0000440
, L0000441 , L0000442 , L0000443 ,
L0000444 , L0000445 , L0000446 , L0000447 , L0000448

, L0000449   , L0000450   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
495005.95	3761336.41	52.34790	(23120721)	495145.95	3761336.41	30.66097	(23120721)
495165.95	3761336.41	31.01653	(23120721)	495185.95	3761336.41	31.37257	(23120721)
495205.95	3761336.41	31.02568	(23120721)	495225.95	3761336.41	30.18747	(23120721)
495245.95	3761336.41	29.37469	(23120721)	495265.95	3761336.41	28.79567	(23120721)
495285.95	3761336.41	34.38021	(23102622)	495305.95	3761336.41	36.48690	(23102622)
495325.95	3761336.41	37.10801	(21070905)	495345.95	3761336.41	36.49843	(21070905)
495365.95	3761336.41	36.47904	(21070905)	495385.95	3761336.41	35.97627	(21070905)
495405.95	3761336.41	35.23685	(21070905)	495005.95	3761356.41	53.13916	(23102622)
495025.95	3761356.41	53.39924	(23102622)	495045.95	3761356.41	50.92974	(23102622)
495065.95	3761356.41	44.94328	(23102622)	495085.95	3761356.41	38.01146	(23120721)
495105.95	3761356.41	33.71097	(23120721)	495125.95	3761356.41	32.22954	(23120721)
495145.95	3761356.41	32.32083	(23120721)	495165.95	3761356.41	32.09389	(23120721)
495185.95	3761356.41	31.16266	(23120721)	495205.95	3761356.41	30.40695	(23120721)
495225.95	3761356.41	30.15849	(23102622)	495245.95	3761356.41	30.33802	(23102622)
495265.95	3761356.41	30.77850	(23102622)	495285.95	3761356.41	36.09362	(23102622)
495305.95	3761356.41	36.87058	(23102622)	495325.95	3761356.41	36.45210	(23102622)
495345.95	3761356.41	35.71740	(21070905)	495365.95	3761356.41	35.46374	(21070905)
495385.95	3761356.41	34.97443	(21070905)	495405.95	3761356.41	34.36898	(21070905)
495425.95	3761356.41	33.74711	(21070905)	495445.95	3761356.41	33.20030	(21070905)

```
        495005.95   3761376.41       51.56914  (23102622)                495025.95
3761376.41       51.99339  (23102622)
        495045.95   3761376.41       50.40550  (23102622)                495065.95
3761376.41       48.31198  (23102622)
        495085.95   3761376.41       41.46454  (23102622)                495105.95
3761376.41       36.49519  (23102622)
        495125.95   3761376.41       34.47044  (23102622)                495145.95
3761376.41       33.76869  (23102622)
        495165.95   3761376.41       32.83038  (23102622)                495185.95
3761376.41       31.81497  (23102622)
        495205.95   3761376.41       31.31578  (23102622)                495225.95
3761376.41       31.62363  (23102622)
        495245.95   3761376.41       34.03769  (23102622)                495265.95
3761376.41       34.51821  (23102622)
        495285.95   3761376.41       36.26603  (23102622)                495305.95
3761376.41       36.12142  (23102622)
        495325.95   3761376.41       35.45170  (23102622)                495345.95
3761376.41       34.69455  (23102622)
        495365.95   3761376.41       34.04800  (23102622)                495385.95
3761376.41       33.40424  (23102622)
        495405.95   3761376.41       32.74905  (23102622)                495425.95
3761376.41       32.19270  (21070905)
        495445.95   3761376.41       31.68441  (21070905)                495465.95
3761376.41       31.08619  (21070905)
        495485.95   3761376.41       30.46438  (21070905)                494985.95
3761396.41       48.13523  (23102622)
        495005.95   3761396.41       50.16208  (23102622)                495025.95
3761396.41       48.83302  (23102622)
        495045.95   3761396.41       47.46376  (23102622)                495065.95
3761396.41       46.01778  (23102622)
        495085.95   3761396.41       43.39199  (23102622)                495105.95
3761396.41       37.12803  (23102622)
        495125.95   3761396.41       35.35562  (23102622)                495145.95
3761396.41       34.71196  (23102622)
        495165.95   3761396.41       34.07127  (23102622)                495185.95
3761396.41       33.00011  (23102622)
        495205.95   3761396.41       32.37648  (23102622)                495225.95
3761396.41       34.27619  (23102622)
        495245.95   3761396.41       35.13260  (23102622)                495265.95
3761396.41       34.98598  (23102622)
        495285.95   3761396.41       34.80680  (23102622)                495305.95
3761396.41       34.28974  (23102622)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                       ***        08:18:30

                                  PAGE 171
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: INBOUND ***
INCLUDING SOURCE(S): L0000423 , L0000424 , L0000425 , L0000426 , L0000427 ,
L0000428 , L0000429 , L0000430 , L0000431 , L0000432 , L0000433 , L0000434 , L0000435 ,
L0000436 , L0000437 , L0000438 , L0000439 , L0000440 , L0000441 , L0000442 , L0000443 ,
L0000444 , L0000445 , L0000446 , L0000447 , L0000448 , L0000449 , L0000450 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
495325.95	3761396.41	33.67200	(23102622)	495345.95	3761396.41	33.03901	(23102622)
495365.95	3761396.41	32.37492	(23102622)	495385.95	3761396.41	31.75276	(19022622)
495405.95	3761396.41	31.37930	(19022622)	495425.95	3761396.41	31.03332	(19022622)
495445.95	3761396.41	30.73007	(19022622)	495465.95	3761396.41	30.28262	(19022622)
495485.95	3761396.41	29.76209	(19022622)	495505.95	3761396.41	29.11542	(19022622)
494965.95	3761416.41	49.83930	(18020918)	494985.95	3761416.41	49.05980	(22122923)
495005.95	3761416.41	47.42625	(22122923)	495025.95	3761416.41	45.71312	(22122923)
495045.95	3761416.41	44.59026	(22120520)	495065.95	3761416.41	43.58253	(22120520)
495085.95	3761416.41	41.90023	(22120520)	495105.95	3761416.41	38.87252	(22120520)
495125.95	3761416.41	36.87971	(22120520)	495145.95	3761416.41	35.75997	(23102622)
495165.95	3761416.41	34.71160	(23102622)	495185.95	3761416.41	33.71357	(23102622)
495205.95	3761416.41	33.05796	(23102622)	495225.95	3761416.41	33.29651	(22120520)
495245.95	3761416.41	34.00063	(22120520)	495265.95	3761416.41	33.69938	(19120820)
495285.95	3761416.41	33.34507	(19120820)	495305.95	3761416.41	32.96322	(19120820)
495325.95	3761416.41	32.70857	(19120820)	495345.95			

3761416.41 32.48721 (19120820)
495365.95 3761416.41 31.90869 (19120820) 495385.95
3761416.41 31.31756 (19120820)
495405.95 3761416.41 30.75189 (19120820) 495425.95
3761416.41 30.21433 (19120820)
495445.95 3761416.41 29.69326 (19120820) 495465.95
3761416.41 29.14993 (19120820)
495485.95 3761416.41 28.60695 (19120820) 495505.95
3761416.41 28.06587 (19120820)
495525.95 3761416.41 27.51559 (19120820) 494965.95
3761436.41 49.54291 (18020918)
494985.95 3761436.41 48.32192 (22122923) 495005.95
3761436.41 46.74705 (22122923)
495025.95 3761436.41 45.24617 (22122923) 495045.95
3761436.41 44.06998 (22122923)
495065.95 3761436.41 43.10858 (22122923) 495085.95
3761436.41 42.01488 (22122923)
495105.95 3761436.41 40.41973 (22122923) 495125.95
3761436.41 38.62075 (22122923)
495145.95 3761436.41 36.83262 (22122923) 495165.95
3761436.41 35.31442 (22122923)
495185.95 3761436.41 34.25221 (22120520) 495205.95
3761436.41 33.64501 (22120520)
495225.95 3761436.41 33.89939 (22120520) 495245.95
3761436.41 34.10194 (22120520)
495265.95 3761436.41 33.46422 (22120520) 495285.95
3761436.41 32.90077 (22120520)
495305.95 3761436.41 32.50864 (21021618) 495325.95
3761436.41 32.40927 (21021618)
495345.95 3761436.41 32.35308 (23120117) 495365.95
3761436.41 31.69405 (21021618)
495385.95 3761436.41 31.03615 (22120817) 495405.95
3761436.41 30.43795 (22120817)
495425.95 3761436.41 29.89014 (22120817) 495445.95
3761436.41 29.36732 (22120817)
495465.95 3761436.41 28.82486 (22120817) 495485.95
3761436.41 28.28911 (22120817)
495505.95 3761436.41 27.75726 (22120817) 495525.95
3761436.41 27.27986 (22120123)
494845.95 3761456.41 78.96551 (19061019) 494945.95
3761456.41 47.88377 (19022819)
494965.95 3761456.41 48.26520 (19122419) 494985.95
3761456.41 46.72495 (19122419)
495005.95 3761456.41 44.87895 (19122419) 495025.95
3761456.41 43.68151 (23020619)
495045.95 3761456.41 42.98766 (23020619) 495065.95
3761456.41 42.42294 (23020619)
495085.95 3761456.41 41.45507 (23020619) 495105.95
3761456.41 40.40909 (23020619)
495125.95 3761456.41 39.09817 (23020619) 495145.95

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                             *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: INBOUND ***
                                 INCLUDING SOURCE(S):   L0000423   , L0000424
, L0000425   , L0000426   , L0000427   ,
                 L0000428   , L0000429   , L0000430   , L0000431   , L0000432
, L0000433   , L0000434   , L0000435   ,
                 L0000436   , L0000437   , L0000438   , L0000439   , L0000440
, L0000441   , L0000442   , L0000443   ,
                 L0000444   , L0000445   , L0000446   , L0000447   , L0000448
, L0000449   , L0000450   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF VARIOUS IN MICROGRAMS/M**3
                 **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        495165.95   3761456.41   36.14948 (22122923)   495185.95
3761456.41   35.11992 (22122923)
        495205.95   3761456.41   34.35549 (22122923)   495225.95
3761456.41   34.07809 (22122923)
        495245.95   3761456.41   34.18728 (23120117)   495265.95
3761456.41   33.45089 (23120117)
        495285.95   3761456.41   32.88982 (23120117)   495305.95
3761456.41   32.58791 (23120117)
        495325.95   3761456.41   32.59047 (23120117)   495345.95
3761456.41   32.57416 (23120117)
        495365.95   3761456.41   31.92621 (23120117)   495385.95
3761456.41   31.25895 (23120117)
        495405.95   3761456.41   30.64670 (23120117)   495425.95
3761456.41   30.09304 (23120117)
        495445.95   3761456.41   29.61322 (22120817)   495465.95
3761456.41   29.06687 (22120817)
        495485.95   3761456.41   28.54643 (22120817)   495505.95
3761456.41   28.06576 (22120817)
        495525.95   3761456.41   27.61203 (22120817)   494865.95
3761476.41   69.66355 (19061019)

494885.95 3761476.41 59.49864 (19061019) 494905.95 3761476.41 50.63881 (19061019)
494925.95 3761476.41 48.63996 (18121117) 494945.95 3761476.41 48.85141 (18121117)
494965.95 3761476.41 47.45825 (18121117) 494985.95 3761476.41 46.07164 (19021522)
495005.95 3761476.41 44.26485 (19021522) 495025.95 3761476.41 42.83682 (19021522)
495045.95 3761476.41 41.69210 (19122419) 495065.95 3761476.41 41.01770 (23020619)
495085.95 3761476.41 40.32747 (23020619) 495105.95 3761476.41 39.59012 (23020619)
495125.95 3761476.41 38.71002 (23020619) 495145.95 3761476.41 37.68599 (23020619)
495165.95 3761476.41 36.54350 (23020619) 495185.95 3761476.41 35.73873 (23020619)
495205.95 3761476.41 35.10708 (23020619) 495225.95 3761476.41 34.80662 (23020619)
495245.95 3761476.41 34.51243 (23020619) 495265.95 3761476.41 33.69442 (23020619)
495285.95 3761476.41 33.03959 (23020619) 495305.95 3761476.41 32.57914 (23020619)
495325.95 3761476.41 32.30973 (23020619) 495345.95 3761476.41 31.99440 (23020619)
495365.95 3761476.41 31.37002 (23120117) 495385.95 3761476.41 30.80252 (23120117)
495405.95 3761476.41 30.29170 (23120117) 495425.95 3761476.41 29.84003 (23120117)
495445.95 3761476.41 29.41807 (23120117) 495465.95 3761476.41 28.88836 (23120117)
495485.95 3761476.41 28.37878 (23120117) 495505.95 3761476.41 27.90144 (23120117)
495525.95 3761476.41 27.44664 (23120117) 494865.95 3761496.41 67.19471 (19061019)
494885.95 3761496.41 60.54315 (19061019) 494905.95 3761496.41 53.80374 (19061019)
494925.95 3761496.41 49.60696 (22021918) 494945.95 3761496.41 48.34512 (22021918)
494965.95 3761496.41 46.84072 (22021918) 494985.95 3761496.41 45.21869 (21021918)
495005.95 3761496.41 43.67191 (21021918) 495025.95 3761496.41 42.60694 (21021918)
495045.95 3761496.41 41.75114 (21021918) 495065.95 3761496.41 40.73185 (19021522)
495085.95 3761496.41 39.64443 (22123004) 495105.95 3761496.41 38.66814 (22123004)
495125.95 3761496.41 37.75691 (22123004) 495145.95 3761496.41 36.79835 (22123004)
495165.95 3761496.41 35.87113 (23020619) 495185.95 3761496.41 35.48010 (23020619)

3761516.41 46.84247 (22021918)
494965.95 3761516.41 45.95987 (22021918) 494985.95
3761516.41 44.94864 (22021918)
495005.95 3761516.41 43.23557 (22021918) 495025.95
3761516.41 42.12754 (21021918)
495045.95 3761516.41 41.70008 (21021918) 495065.95
3761516.41 41.06287 (21021918)
495085.95 3761516.41 40.00640 (21021918) 495105.95
3761516.41 38.72611 (21021918)
495125.95 3761516.41 37.46444 (21021918) 495145.95
3761516.41 36.48781 (22123004)
495165.95 3761516.41 35.74135 (22123004) 495185.95
3761516.41 35.12979 (22123004)
495205.95 3761516.41 34.57138 (23123019) 495225.95
3761516.41 34.02272 (23123019)
495245.95 3761516.41 33.44335 (23123019) 495265.95
3761516.41 33.01636 (23121820)
495285.95 3761516.41 32.67635 (23121820) 495305.95
3761516.41 32.38065 (23121820)
495325.95 3761516.41 32.11239 (23121820) 495345.95
3761516.41 31.81308 (23121820)
495365.95 3761516.41 31.23937 (23121820) 495385.95
3761516.41 30.70072 (23121820)
495405.95 3761516.41 30.23241 (23121820) 495425.95
3761516.41 29.83870 (23121820)
495445.95 3761516.41 29.47789 (23121820) 495465.95
3761516.41 28.85087 (23121820)
495485.95 3761516.41 28.23952 (23121820) 495505.95
3761516.41 27.67676 (23121820)
495525.95 3761516.41 27.15720 (23121820) 494865.95
3761536.41 51.64219 (19061019)
494885.95 3761536.41 50.14483 (19061019) 494905.95
3761536.41 48.46314 (19061019)
494925.95 3761536.41 46.12425 (19061019) 494945.95
3761536.41 44.55438 (18021420)
494965.95 3761536.41 43.88874 (22021918) 494985.95
3761536.41 43.34824 (22021918)
495005.95 3761536.41 42.23945 (22021918) 495025.95
3761536.41 41.56422 (22021918)
495045.95 3761536.41 40.86912 (22021918) 495065.95
3761536.41 40.39011 (21021918)
495085.95 3761536.41 39.67944 (21021918) 495105.95
3761536.41 38.78539 (21021918)
495125.95 3761536.41 37.88456 (21021918) 495145.95
3761536.41 36.94011 (21021918)
495165.95 3761536.41 35.91183 (21021918) 495185.95
3761536.41 34.89501 (21021918)
495205.95 3761536.41 34.04474 (22123004) 495225.95
3761536.41 33.60951 (23123019)
495245.95 3761536.41 33.17999 (23123019) 495265.95

3761536.41 32.70884 (23123019)
  495285.95 3761536.41 32.26447 (23123019) 495305.95
3761536.41 31.81685 (23123019)
  495325.95 3761536.41 31.35109 (23123019) 495345.95
3761536.41 30.95877 (23121820)
  495365.95 3761536.41 30.58368 (23121820) 495385.95
3761536.41 30.20835 (23121820)
  495405.95 3761536.41 29.86833 (23121820) 495425.95
3761536.41 29.57008 (23121820)
  495445.95 3761536.41 29.29511 (23121820) 495465.95
3761536.41 28.81136 (23121820)
  495485.95 3761536.41 28.31716 (23121820) 495505.95
3761536.41 27.85416 (23121820)
  495525.95 3761536.41 27.42391 (23121820) 494865.95
3761556.41 45.55337 (19061019)
  494885.95 3761556.41 44.72827 (18022619) 494905.95
3761556.41 43.51562 (19061019)
  494925.95 3761556.41 43.17626 (23123018) 494945.95
3761556.41 42.82555 (23123018)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: INBOUND ***
INCLUDING SOURCE(S): L0000423 , L0000424 , L0000425 , L0000426 , L0000427 ,
L0000428 , L0000429 , L0000430 , L0000431 , L0000432 , L0000433 , L0000434 , L0000435 ,
L0000436 , L0000437 , L0000438 , L0000439 , L0000440 , L0000441 , L0000442 , L0000443 ,
L0000444 , L0000445 , L0000446 , L0000447 , L0000448 , L0000449 , L0000450 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
494965.95	3761556.41	42.28687	(23123018)	494985.95	3761556.41	41.48702	(19120407)

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        495005.95   3761556.41       40.43976  (18021420)               495025.95
3761556.41       40.18579  (22021918)
        495045.95   3761556.41       39.95023  (22021918)               495065.95
3761556.41       39.41077  (18021819)
        495085.95   3761556.41       38.56318  (18021819)               495105.95
3761556.41       37.94271  (21021918)
        495125.95   3761556.41       37.42978  (21021918)               495145.95
3761556.41       36.83398  (21021918)
        495165.95   3761556.41       36.11057  (21021918)               495185.95
3761556.41       35.35025  (21021918)
        495205.95   3761556.41       34.55215  (21021918)               495225.95
3761556.41       33.72132  (21021918)
        495245.95   3761556.41       32.84988  (21021918)               495265.95
3761556.41       32.13041  (21010906)
        495285.95   3761556.41       31.65405  (23123019)               495305.95
3761556.41       31.30439  (23123019)
        495325.95   3761556.41       30.93706  (23123019)               495345.95
3761556.41       30.54752  (23123019)
        495365.95   3761556.41       30.13627  (23123019)               495385.95
3761556.41       29.68467  (23123019)
        495405.95   3761556.41       29.22896  (23123019)               495425.95
3761556.41       28.88085  (21121817)
        495445.95   3761556.41       28.66765  (21121817)               495465.95
3761556.41       28.31415  (21121817)
        495485.95   3761556.41       27.91474  (21121817)               495505.95
3761556.41       27.52555  (21121817)
        495525.95   3761556.41       27.17091  (23121820)               494845.95
3761576.41       45.45639  (18022619)
        494865.95   3761576.41       43.46435  (18022619)               494885.95
3761576.41       42.97375  (18022619)
        494905.95   3761576.41       41.70717  (18022619)               494925.95
3761576.41       41.10340  (23123018)
        494945.95   3761576.41       41.00991  (23123018)               494965.95
3761576.41       40.80507  (23123018)
        494985.95   3761576.41       40.35691  (23123018)               495005.95
3761576.41       39.63214  (23123018)
        495025.95   3761576.41       39.10535  (19120407)               495045.95
3761576.41       38.76408  (19120407)
        495065.95   3761576.41       38.28183  (23021318)               495085.95
3761576.41       37.57978  (18021819)
        495105.95   3761576.41       37.02453  (18021819)               495125.95
3761576.41       36.45666  (18021819)
        495145.95   3761576.41       35.81957  (21021918)               495165.95
3761576.41       35.43518  (21021918)
        495185.95   3761576.41       34.98574  (21021918)               495205.95
3761576.41       34.47459  (21021918)
        495225.95   3761576.41       33.89810  (21021918)               495245.95
3761576.41       33.26586  (21021918)
        495265.95   3761576.41       32.56841  (21021918)               495285.95
3761576.41       31.82923  (21021918)
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        495305.95   3761576.41       31.16680  (21010906)               495325.95
3761576.41       30.56030  (21010906)
        495345.95   3761576.41       29.93296  (21010906)               495365.95
3761576.41       29.57524  (23123019)
        495385.95   3761576.41       29.24740  (23123019)               495405.95
3761576.41       28.89187  (23123019)
        495425.95   3761576.41       28.52555  (23123019)               495445.95
3761576.41       28.17407  (23123019)
        495465.95   3761576.41       27.76643  (23123019)               495485.95
3761576.41       27.32640  (23123019)
        495505.95   3761576.41       26.96425  (21121817)               495525.95
3761576.41       26.70752  (21121817)
        494845.95   3761596.41       43.90104  (23123020)               494865.95
3761596.41       42.05565  (18022619)
        494885.95   3761596.41       41.29015  (23123020)               494905.95
3761596.41       40.27581  (18022619)
        494925.95   3761596.41       39.82509  (23123020)               494945.95
3761596.41       39.19139  (23123020)
        494965.95   3761596.41       39.00999  (23123018)               494985.95
3761596.41       38.85204  (23123018)
        495005.95   3761596.41       38.55172  (23123018)               495025.95
3761596.41       38.40191  (23123018)
        495045.95   3761596.41       37.98117  (23123018)               495065.95
3761596.41       37.35919  (19120407)
        495085.95   3761596.41       36.57143  (19120407)               495105.95
3761596.41       35.99764  (23021318)
        495125.95   3761596.41       35.58324  (23021318)               495145.95
3761596.41       35.13087  (18021819)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                      ***        08:18:30

                                  PAGE 175
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  INBOUND  ***
                                  INCLUDING SOURCE(S):     L0000423    , L0000424
, L0000425    , L0000426    , L0000427    ,
                  L0000428    , L0000429    , L0000430    , L0000431    , L0000432
, L0000433    , L0000434    , L0000435    ,
                  L0000436    , L0000437    , L0000438    , L0000439    , L0000440
, L0000441    , L0000442    , L0000443    ,
                  L0000444    , L0000445    , L0000446    , L0000447    , L0000448
, L0000449    , L0000450    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF VARIOUS IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
495165.95	3761596.41	34.66709	(18021819)	495185.95	3761596.41	34.11665	(18021819)
495205.95	3761596.41	33.60565	(21021918)	495225.95	3761596.41	33.26354	(21021918)
495245.95	3761596.41	32.85783	(21021918)	495265.95	3761596.41	32.38696	(21021918)
495285.95	3761596.41	31.85204	(21021918)	495305.95	3761596.41	31.25679	(21021918)
495325.95	3761596.41	30.62007	(21021918)	495345.95	3761596.41	29.95189	(21021918)
495365.95	3761596.41	29.46429	(21010906)	495385.95	3761596.41	28.94749	(21010906)
495405.95	3761596.41	28.38982	(21010906)	495425.95	3761596.41	27.80271	(21010906)
495445.95	3761596.41	27.53030	(23123019)	495465.95	3761596.41	27.24676	(23123019)
495485.95	3761596.41	26.93678	(23123019)	495505.95	3761596.41	26.61373	(23123019)
495525.95	3761596.41	26.27599	(23123019)	494845.95	3761616.41	42.53023	(23123020)
494865.95	3761616.41	40.71163	(23123020)	494885.95	3761616.41	39.77196	(23123020)
494905.95	3761616.41	38.86781	(23123020)	494925.95	3761616.41	38.56266	(23123020)
494945.95	3761616.41	38.15851	(23123020)	494965.95	3761616.41	37.68850	(23123020)
494985.95	3761616.41	37.07732	(23123018)	495005.95	3761616.41	37.04047	(23123018)
495025.95	3761616.41	37.27339	(23123018)	495045.95	3761616.41	37.04339	(23123018)
495065.95	3761616.41	36.63240	(23123018)	495085.95	3761616.41	35.86220	(23123018)
495105.95	3761616.41	35.21760	(19120407)	495125.95	3761616.41	34.72004	(19120407)
495145.95	3761616.41	34.20888	(23021318)	495165.95	3761616.41	33.86591	(23021318)
495185.95	3761616.41	33.45830	(21020818)	495205.95	3761616.41	33.02308	(21020818)
495225.95	3761616.41	32.50396	(21020818)	495245.95	3761616.41	31.93502	(18021819)
495265.95	3761616.41	31.52802	(21021918)	495285.95	3761616.41	31.19891	(21021918)
495305.95	3761616.41	30.81588	(21021918)	495325.95			

3761616.41 30.38088 (21021918)
  495345.95 3761616.41 29.90061 (21021918) 495365.95
3761616.41 29.38311 (21021918)
  495385.95 3761616.41 28.89729 (18021419) 495405.95
3761616.41 28.40268 (18021419)
  495425.95 3761616.41 27.88511 (21010906) 495445.95
3761616.41 27.40011 (21010906)
  495465.95 3761616.41 26.91455 (22120717) 495485.95
3761616.41 26.52151 (22120717)
  495505.95 3761616.41 26.12209 (22120717) 495525.95
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  494845.95 3761636.41 41.17979 (23123020) 494865.95
3761636.41 39.41906 (23123020)
  494885.95 3761636.41 38.37556 (23123020) 494905.95
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  494925.95 3761636.41 37.37573 (23123020) 494945.95
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  494965.95 3761636.41 36.75398 (23123020) 494985.95
3761636.41 36.27153 (23123020)
  495005.95 3761636.41 35.79759 (23122217) 495025.95
3761636.41 35.71422 (23123018)
  495045.95 3761636.41 35.69787 (23123018) 495065.95
3761636.41 35.52786 (23123018)
  495085.95 3761636.41 35.09761 (23123018) 495105.95
3761636.41 34.65320 (23123018)
  495125.95 3761636.41 34.16866 (23123018) 495145.95
3761636.41 33.63128 (19120407)
  495165.95 3761636.41 33.18766 (19120407) 495185.95
3761636.41 32.75453 (22022518)
  495205.95 3761636.41 32.41072 (22022518) 495225.95
3761636.41 31.98035 (22022518)
  495245.95 3761636.41 31.59041 (21020818) 495265.95
3761636.41 31.13886 (21020818)
  495285.95 3761636.41 30.61425 (21020818) 495305.95
3761636.41 30.11579 (22022020)
  495325.95 3761636.41 29.63745 (22022020) 495345.95
3761636.41 29.31788 (21021918)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: INBOUND ***
INCLUDING SOURCE(S): L0000423 , L0000424 , L0000425 , L0000426 , L0000427 ,
L0000428 , L0000429 , L0000430 , L0000431 , L0000432

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, L0000433    , L0000434    , L0000435    ,
                L0000436    , L0000437    , L0000438    , L0000439    , L0000440
, L0000441    , L0000442    , L0000443    ,
                L0000444    , L0000445    , L0000446    , L0000447    , L0000448
, L0000449    , L0000450    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF VARIOUS  IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)             X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        495365.95   3761636.41       28.96969  (21021918)               495385.95
3761636.41       28.60144  (18021419)
        495405.95   3761636.41       28.28868  (18021419)               495425.95
3761636.41       27.92830  (18021419)
        495445.95   3761636.41       27.49096  (18021419)               495465.95
3761636.41       27.00060  (18021419)
        495485.95   3761636.41       26.49816  (18021419)               495505.95
3761636.41       26.02800  (22120717)
        495525.95   3761636.41       25.72496  (22120717)               494845.95
3761656.41       39.77087  (23123020)
        494865.95   3761656.41       38.02008  (23123020)               494885.95
3761656.41       37.04522  (23123020)
        494905.95   3761656.41       36.43086  (23123020)               494925.95
3761656.41       36.18768  (23123020)
        494945.95   3761656.41       35.92753  (23123020)               494965.95
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        494985.95   3761656.41       35.33031  (23123020)               495005.95
3761656.41       35.05092  (23123020)
        495025.95   3761656.41       35.05918  (23122217)               495045.95
3761656.41       34.62821  (23122217)
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3761656.41       33.97689  (23123018)
        495105.95   3761656.41       33.76263  (23123018)               495125.95
3761656.41       33.53092  (23123018)
        495145.95   3761656.41       33.19724  (23123018)               495165.95
3761656.41       32.70547  (23123018)
        495185.95   3761656.41       32.10840  (19120407)               495205.95
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        495225.95   3761656.41       31.30522  (22022518)               495245.95
3761656.41       31.00299  (22022518)
        495265.95   3761656.41       30.62671  (22022518)               495285.95
3761656.41       30.19433  (21020818)
        495305.95   3761656.41       29.80058  (21020818)               495325.95
3761656.41       29.34140  (21020818)
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3761656.41       27.71032  (18021419)
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        495465.95   3761656.41       26.91056  (18021419)                495485.95
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3761656.41       25.73781  (18021419)
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3761676.41       36.63416  (23123020)
        494885.95   3761676.41       35.78688  (23123020)                494905.95
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3761676.41       34.34256  (23122217)
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3761676.41       32.36629  (23123018)
        495165.95   3761676.41       32.09448  (23123018)                495185.95
3761676.41       31.71397  (23123018)
        495205.95   3761676.41       31.23014  (23123018)                495225.95
3761676.41       30.64522  (23123018)
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3761676.41       29.90622  (21020618)
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3761676.41       29.34498  (22022518)
        495325.95   3761676.41       28.96352  (22022518)                495345.95
3761676.41       28.54553  (21020818)
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3761676.41       27.69016  (21020818)
        495405.95   3761676.41       27.32994  (22022020)                495425.95
3761676.41       26.98012  (22022020)
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3761676.41       26.38961  (18021419)
        495485.95   3761676.41       26.15390  (18021419)                495505.95
3761676.41       25.88897  (18021419)
        495525.95   3761676.41       25.59502  (18021419)                494845.95
3761696.41       36.95958  (22121117)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                       ***        08:18:30
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: INBOUND ***
                                  INCLUDING SOURCE(S):   L0000423   , L0000424 , L0000425   , L0000426   , L0000427   ,
                 L0000428   , L0000429   , L0000430   , L0000431   , L0000432 , L0000433   , L0000434   , L0000435   ,
                 L0000436   , L0000437   , L0000438   , L0000439   , L0000440 , L0000441   , L0000442   , L0000443   ,
                 L0000444   , L0000445   , L0000446   , L0000447   , L0000448 , L0000449   , L0000450   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                             ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 - - -

3761696.41 27.79799 (22022518)
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3761696.41 27.00178 (21020818)
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3761696.41 26.27236 (22022020)
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3761696.41 25.59321 (22022020)
495505.95 3761696.41 25.24125 (18021419) 495525.95
3761696.41 25.06446 (18021419)
494845.95 3761716.41 36.29572 (22012818) 494865.95
3761716.41 34.51063 (22012818)
494885.95 3761716.41 33.60513 (18022306) 494905.95
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494925.95 3761716.41 32.59344 (19022618) 494945.95
3761716.41 32.31552 (19022618)
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495005.95 3761716.41 32.32897 (23123020) 495025.95
3761716.41 32.44977 (23123020)
495045.95 3761716.41 32.36634 (23122217) 495065.95
3761716.41 32.25341 (23122217)
495085.95 3761716.41 32.01391 (23122217) 495105.95
3761716.41 31.77639 (23122217)
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495165.95 3761716.41 30.40126 (23122217) 495185.95
3761716.41 29.94354 (23123018)
495205.95 3761716.41 29.84182 (23123018) 495225.95
3761716.41 29.67892 (23123018)
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494885.95 3761736.41 32.86600 (22012818) 494905.95
3761736.41 32.28264 (18022306)
494925.95 3761736.41 31.86071 (18022306) 494945.95

3761736.41 31.64923 (19022618)
  494965.95 3761736.41 31.44044 (19022618) 494985.95
3761736.41 31.07260 (19022618)
  495005.95 3761736.41 31.23799 (19022618) 495025.95
3761736.41 31.38044 (23123020)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: INBOUND ***
                INCLUDING SOURCE(S): L0000423 , L0000424
, L0000425 , L0000426 , L0000427 ,
            L0000428 , L0000429 , L0000430 , L0000431 , L0000432
, L0000433 , L0000434 , L0000435 ,
            L0000436 , L0000437 , L0000438 , L0000439 , L0000440
, L0000441 , L0000442 , L0000443 ,
            L0000444 , L0000445 , L0000446 , L0000447 , L0000448
, L0000449 , L0000450 , . . . ,

                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                ** CONC OF VARIOUS IN MICROGRAMS/M**3
            **

  X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M)
Y-COORD (M) CONC (YYMMDDHH)
 - - -

```
        495365.95   3761736.41       27.27110  (21020618)               495385.95
3761736.41       27.07360  (21020618)
        495405.95   3761736.41       26.76982  (21020618)               495425.95
3761736.41       26.38058  (21020618)
        495445.95   3761736.41       25.95260  (21020618)               495465.95
3761736.41       25.55997  (21020618)
        495485.95   3761736.41       25.03074  (21020618)               495505.95
3761736.41       24.59533  (22022518)
        495525.95   3761736.41       24.25517  (21020818)               495545.95
3761736.41       23.95083  (22022020)
        494845.95   3761756.41       34.80804  (22012818)               494865.95
3761756.41       33.34905  (22012818)
        494885.95   3761756.41       32.30010  (22012818)               494905.95
3761756.41       31.65006  (22012818)
        494925.95   3761756.41       31.09733  (18022306)               494945.95
3761756.41       30.84536  (18022306)
        494965.95   3761756.41       30.66130  (19022618)               494985.95
3761756.41       30.42344  (19022618)
        495005.95   3761756.41       30.65242  (19022618)               495025.95
3761756.41       30.60294  (19022618)
        495045.95   3761756.41       30.26737  (19022618)               495065.95
3761756.41       30.19359  (23123020)
        495085.95   3761756.41       30.11635  (23123020)               495105.95
3761756.41       30.13408  (23122217)
        495125.95   3761756.41       30.09981  (23122217)               495145.95
3761756.41       29.98689  (23122217)
        495165.95   3761756.41       29.78533  (23122217)               495185.95
3761756.41       29.44731  (23122217)
        495205.95   3761756.41       29.05370  (23122217)               495225.95
3761756.41       28.60178  (23122217)
        495245.95   3761756.41       28.13055  (23011703)               495265.95
3761756.41       27.67026  (22022220)
        495285.95   3761756.41       27.49886  (22022220)               495305.95
3761756.41       27.30703  (23123018)
        495325.95   3761756.41       27.07306  (23123018)               495345.95
3761756.41       26.76791  (23123018)
        495365.95   3761756.41       26.59995  (21020618)               495385.95
3761756.41       26.53534  (21020618)
        495405.95   3761756.41       26.38104  (21020618)               495425.95
3761756.41       26.14604  (21020618)
        495445.95   3761756.41       25.86653  (21020618)               495465.95
3761756.41       25.58654  (21020618)
        495485.95   3761756.41       25.20750  (21020618)               495505.95
3761756.41       24.75503  (21020618)
        495525.95   3761756.41       24.24761  (21020618)               495545.95
3761756.41       23.74244  (22022518)
        495565.95   3761756.41       23.36719  (21020818)               494845.95
3761776.41       33.70648  (22012818)
        494865.95   3761776.41       32.56066  (22012818)               494885.95
3761776.41       31.71613  (22012818)
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: INBOUND ***
INCLUDING SOURCE(S): L0000423 , L0000424 , L0000425 , L0000426 , L0000427 ,
L0000428 , L0000429 , L0000430 , L0000431 , L0000432 , L0000433 , L0000434 , L0000435 ,
L0000436 , L0000437 , L0000438 , L0000439 , L0000440 , L0000441 , L0000442 , L0000443 ,
L0000444 , L0000445 , L0000446 , L0000447 , L0000448 , L0000449 , L0000450 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
495185.95	3761776.41	28.92013	(23010506)	495205.95	3761776.41	28.65356	(23122217)
495225.95	3761776.41	28.34147	(23122217)	495245.95	3761776.41	27.95417	(23122217)
495265.95	3761776.41	27.43248	(23011703)	495285.95	3761776.41	26.97997	(23011703)
495305.95	3761776.41	26.67813	(22022220)	495325.95			

3761776.41 26.54372 (22022220)
495345.95 3761776.41 26.33569 (22022220) 495365.95
3761776.41 26.07859 (22022220)
495385.95 3761776.41 25.75680 (22022220) 495405.95
3761776.41 25.70146 (21020618)
495425.95 3761776.41 25.60631 (21020618) 495445.95
3761776.41 25.47109 (21020618)
495465.95 3761776.41 25.28359 (21020618) 495485.95
3761776.41 25.04029 (21020618)
495505.95 3761776.41 24.73825 (21020618) 495525.95
3761776.41 24.38348 (21020618)
495545.95 3761776.41 23.98857 (21020618) 495565.95
3761776.41 23.54970 (21020618)
494845.95 3761796.41 32.53407 (22012818) 494865.95
3761796.41 31.92819 (22012818)
494885.95 3761796.41 31.67249 (22012818) 494905.95
3761796.41 31.05807 (22012818)
494925.95 3761796.41 30.47540 (22012818) 494945.95
3761796.41 29.88176 (22012818)
494965.95 3761796.41 29.53355 (21122320) 494985.95
3761796.41 29.40105 (21122320)
495005.95 3761796.41 29.75285 (21122320) 495025.95
3761796.41 29.65193 (19022618)
495045.95 3761796.41 29.51732 (19022618) 495065.95
3761796.41 29.30486 (19022618)
495085.95 3761796.41 29.00098 (19022618) 495105.95
3761796.41 28.62701 (19022618)
495125.95 3761796.41 28.25213 (23010506) 495145.95
3761796.41 28.35085 (23010506)
495165.95 3761796.41 28.37586 (23010506) 495185.95
3761796.41 28.28557 (23010506)
495205.95 3761796.41 28.12376 (23010506) 495225.95
3761796.41 27.91708 (23010506)
495245.95 3761796.41 27.65175 (23010506) 495265.95
3761796.41 27.27974 (23122217)
495285.95 3761796.41 26.85657 (23122217) 495305.95
3761796.41 26.42311 (23011703)
495325.95 3761796.41 25.98379 (23011703) 495345.95
3761796.41 25.76777 (22022220)
495365.95 3761796.41 25.63973 (22022220) 495385.95
3761796.41 25.44988 (22022220)
495405.95 3761796.41 25.19111 (22022220) 495425.95
3761796.41 24.86803 (22022220)
495445.95 3761796.41 24.80383 (21020618) 495465.95
3761796.41 24.73605 (21020618)
495485.95 3761796.41 24.61898 (21020618) 495505.95
3761796.41 24.45168 (21020618)
495525.95 3761796.41 24.23386 (21020618) 495545.95
3761796.41 23.96863 (21020618)
495565.95 3761796.41 23.66412 (21020618) 494965.95

3761816.41 29.16722 (22012818)
  494985.95 3761816.41 29.04683 (21122320) 495005.95
3761816.41 29.41341 (21122320)
  495025.95 3761816.41 29.19985 (21122320) 495045.95
3761816.41 29.00964 (19022618)
  495065.95 3761816.41 28.90050 (19022618) 495085.95
3761816.41 28.71812 (19022618)
  495105.95 3761816.41 28.46820 (19022618) 495125.95
3761816.41 28.13011 (19022618)
  495145.95 3761816.41 27.67816 (19022618) 495165.95
3761816.41 27.45961 (23010506)
  495185.95 3761816.41 27.47988 (23010506) 495205.95
3761816.41 27.44553 (23010506)
  495225.95 3761816.41 27.37163 (23010506) 495245.95
3761816.41 27.24045 (23010506)
  495265.95 3761816.41 27.01708 (23010506) 495285.95
3761816.41 26.71433 (23010506)
  495305.95 3761816.41 26.33304 (23010506) 495325.95
3761816.41 25.87993 (23122217)
  495345.95 3761816.41 25.50979 (23011703) 495365.95
3761816.41 25.06675 (23011703)
  495385.95 3761816.41 24.91902 (22022220) 495405.95
3761816.41 24.78710 (22022220)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                          *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: INBOUND ***
                              INCLUDING SOURCE(S): L0000423 , L0000424 , L0000425 , L0000426 , L0000427 ,
                L0000428 , L0000429 , L0000430 , L0000431 , L0000432 , L0000433 , L0000434 , L0000435 ,
                L0000436 , L0000437 , L0000438 , L0000439 , L0000440 , L0000441 , L0000442 , L0000443 ,
                L0000444 , L0000445 , L0000446 , L0000447 , L0000448 , L0000449 , L0000450 , . . . ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                      ** CONC OF VARIOUS IN MICROGRAMS/M**3
                **

      X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)

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        495405.95   3761876.41       24.12558  (22122817)                495425.95
3761876.41       23.75801  (22122817)
        495445.95   3761876.41       23.33333  (22122817)                495465.95
3761876.41       22.99998  (23110217)
        495485.95   3761876.41       22.76143  (21020718)                495505.95
3761876.41       22.53804  (22022220)
        495525.95   3761876.41       22.43650  (22022220)                495545.95
3761876.41       22.28264  (22022220)
        495565.95   3761876.41       22.06930  (22022220)                495125.95
3761896.41       26.69506  (21122320)
        495145.95   3761896.41       26.44892  (21122320)                495165.95
3761896.41       26.30541  (19022618)
        495185.95   3761896.41       26.12129  (19022618)                495205.95
3761896.41       25.89782  (19022618)
        495225.95   3761896.41       25.59027  (19022618)                495385.95
3761896.41       24.12941  (23010506)
        495405.95   3761896.41       23.90658  (23010506)                495425.95
3761896.41       23.65535  (22122817)
        495445.95   3761896.41       23.36335  (22122817)                495465.95
3761896.41       23.00940  (22122817)
        495485.95   3761896.41       22.60002  (22022222)                495505.95
3761896.41       22.33792  (21020718)
        495525.95   3761896.41       22.14271  (21020718)                495545.95
3761896.41       21.92210  (21020718)
        495565.95   3761896.41       21.71887  (22022220)                495585.95
3761896.41       21.56569  (22022220)
        495125.95   3761916.41       26.24159  (21122320)                495145.95
3761916.41       26.11041  (21122320)
        495165.95   3761916.41       25.88854  (21122320)                495185.95
3761916.41       25.61599  (19022618)
        495205.95   3761916.41       25.52653  (19022618)                495225.95
3761916.41       25.33794  (19022618)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                      ***        08:18:30

                                 PAGE 181
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  INBOUND  ***
                                 INCLUDING SOURCE(S):     L0000423    , L0000424
, L0000425    , L0000426    , L0000427    ,
                 L0000428    , L0000429    , L0000430    , L0000431    , L0000432
, L0000433    , L0000434    , L0000435    ,
                 L0000436    , L0000437    , L0000438    , L0000439    , L0000440
, L0000441    , L0000442    , L0000443    ,
                 L0000444    , L0000445    , L0000446    , L0000447    , L0000448
, L0000449    , L0000450    ,  . . .      ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
495385.95	3761916.41	23.63103	(23010506)	495405.95	3761916.41	23.53197	(23010506)
495425.95	3761916.41	23.38864	(22122817)	495445.95	3761916.41	23.21359	(22122817)
495465.95	3761916.41	22.97957	(22122817)	495485.95	3761916.41	22.68483	(22122817)
495505.95	3761916.41	22.33840	(22122817)	495525.95	3761916.41	21.95737	(21020718)
495545.95	3761916.41	21.83344	(21020718)	495565.95	3761916.41	21.65377	(21020718)
495585.95	3761916.41	21.38308	(21020718)	495125.95	3761936.41	25.65323	(21122320)
495145.95	3761936.41	25.63743	(21122320)	495165.95	3761936.41	25.53695	(21122320)
495185.95	3761936.41	25.29262	(21122320)	495205.95	3761936.41	25.01886	(21122320)
495225.95	3761936.41	24.92541	(19022618)	495145.95	3761956.41	25.03512	(21122320)
495165.95	3761956.41	25.04999	(21122320)	495185.95	3761956.41	24.91836	(21122320)
495205.95	3761956.41	24.76139	(21122320)	495225.95	3761956.41	24.49917	(21122320)
495145.95	3761976.41	24.46383	(22012818)	495165.95	3761976.41	24.42262	(21122320)
495185.95	3761976.41	24.41714	(21122320)	495205.95	3761976.41	24.37936	(21122320)
495225.95	3761976.41	24.24056	(21122320)	495145.95	3761996.41	24.23343	(22012818)
495165.95	3761996.41	23.93843	(22012818)	495185.95	3761996.41	23.78531	(21122320)
495205.95	3761996.41	23.86543	(21122320)	495225.95	3761996.41	23.84640	(21122320)
495145.95	3762016.41	23.96688	(21010907)	495165.95	3762016.41	23.70391	(22012818)
495185.95	3762016.41	23.41332	(22012818)	495205.95	3762016.41	23.22430	(21122320)
495225.95	3762016.41	23.32527	(21122320)	495145.95	3762036.41	23.71870	(23121317)
495165.95	3762036.41	23.46357	(21010907)	495185.95			

3762036.41 23.18654 (22012818)
  495205.95 3762036.41 22.94406 (22012818) 495225.95
3762036.41 22.74414 (19021601)
  495145.95 3762056.41 23.53763 (23121317) 495165.95
3762056.41 23.27097 (23121317)
  495185.95 3762056.41 22.97871 (21010907) 495205.95
3762056.41 22.71545 (21010907)
  495225.95 3762056.41 22.48152 (22012818) 494031.10
3761757.45 25.67374 (23022717)
  494022.49 3761743.26 27.60506 (23022717) 494020.46
3761734.14 28.86302 (23022717)
  494013.36 3761724.00 30.15295 (23022717) 494002.72
3761712.34 31.46755 (23022717)
  493991.57 3761703.22 32.29063 (23022717) 493980.42
3761692.58 33.11467 (23022717)
  493969.78 3761686.49 33.27908 (23022717) 493957.61
3761681.43 33.14104 (23022717)
  493943.93 3761673.82 33.04354 (23022717) 493926.19
3761672.81 32.03203 (23022717)
  493913.51 3761671.29 31.34416 (23022717) 493899.83
3761669.77 30.56558 (23022717)
  493832.42 3761639.36 26.77100 (23022717) 493822.79
3761647.47 26.09566 (23022717)
  493811.13 3761658.11 25.30684 (23022717) 493809.61
3761669.26 25.09447 (23022717)
  493817.72 3761682.44 25.27807 (23022717) 493833.43
3761689.53 25.88777 (23022717)
  493853.71 3761695.11 26.69792 (23022717) 493871.45
3761693.08 27.69364 (23022717)
  493888.17 3761693.08 28.55035 (23022717) 493905.91
3761693.59 29.42103 (23022717)
  493920.61 3761694.60 30.08031 (23022717) 493939.36
3761698.15 30.67252 (23022717)
  493959.64 3761706.77 30.67744 (23022717) 493975.35
3761717.41 30.02435 (23022717)
  493983.46 3761726.03 29.20978 (23022717) 493991.06
3761738.19 27.85182 (23022717)
  494001.20 3761754.41 25.90440 (23022717) 493984.47
3761753.40 25.87060 (23022717)
  493980.42 3761746.81 26.62078 (23022717) 493970.79
3761734.64 27.89427 (23022717)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: INBOUND ***
                                INCLUDING SOURCE(S):   L0000423   , L0000424
, L0000425   , L0000426   , L0000427   ,
                L0000428   , L0000429   , L0000430   , L0000431   , L0000432
, L0000433   , L0000434   , L0000435   ,
                L0000436   , L0000437   , L0000438   , L0000439   , L0000440
, L0000441   , L0000442   , L0000443   ,
                L0000444   , L0000445   , L0000446   , L0000447   , L0000448
, L0000449   , L0000450   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        493953.56   3761728.06   28.20941 (23022717)   493937.34
3761717.41   28.78745 (23022717)
        493921.12   3761715.38   28.38262 (23022717)   493906.93
3761711.33   28.15572 (23022717)
        493887.16   3761711.33   27.33331 (23022717)   493870.43
3761711.33   26.62356 (23022717)
        493857.76   3761710.82   26.10778 (23022717)   493843.06
3761709.81   25.52111 (23022717)
        493829.38   3761709.81   24.92338 (23022717)   493806.57
3761701.19   24.21456 (23022717)
        493799.47   3761683.96   24.30387 (23022717)   493797.45
3761663.18   24.47896 (23022717)
        493779.71   3761668.25   23.47271 (23022717)   493775.14
3761687.51   23.04900 (23022717)
        493782.75   3761700.18   23.16784 (23022717)   493793.39
3761716.90   23.15204 (23022717)
        493809.10   3761730.59   23.22440 (23022717)   493821.27
3761732.11   23.59088 (23022717)
        493843.57   3761730.59   24.46162 (23022717)   493874.99
3761733.63   25.33794 (23022717)
        493883.61   3761733.12   25.65347 (23022717)   493904.90
3761734.64   26.19189 (23022717)
        493928.72   3761736.17   26.72179 (23022717)   493941.39
3761745.80   26.05535 (23022717)
        493954.06   3761758.47   24.91573 (23022717)   493931.76
3761757.45   24.69047 (23022717)
        493915.54   3761754.92   24.64269 (23022717)   493903.38
3761754.41   24.44193 (23022717)
        493888.68   3761754.41   24.12130 (23022717)   493872.97
3761753.91   23.79360 (23022717)

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        493851.68   3761754.41       23.22595  (23022717)               493835.46
3761751.88       22.95387  (23022717)
        493818.73   3761751.37       22.50804  (23022717)               493742.20
3761651.01       21.43364  (23022717)
        493742.20   3761665.21       21.54354  (23022717)               493742.20
3761680.41       21.54862  (23022717)
        493746.25   3761695.11       21.62956  (23022717)               493750.31
3761708.80       21.60207  (23022717)
        493754.87   3761721.47       21.50689  (23022717)               493757.91
3761732.62       21.30907  (23022717)
        493772.10   3761750.36       21.15550  (23022717)               493760.44
3761749.34       20.83171  (23022717)
        493749.29   3761748.84       20.49785  (23022717)               493730.54
3761748.84       19.90325  (23022717)
        493705.70   3761747.32       19.14925  (23022717)               493712.80
3761770.63       18.69241  (23022717)
        493739.66   3761767.59       19.53440  (23022717)               493757.40
3761769.11       19.94740  (23022717)
        493780.21   3761771.14       20.43558  (23022717)               493801.50
3761770.12       21.00840  (23022717)
        493830.90   3761773.17       21.48567  (23022717)               493850.66
3761773.67       21.85327  (23022717)
        493872.46   3761773.67       22.24979  (23022717)               493893.75
3761776.71       22.32154  (23022717)
        493908.45   3761775.70       22.60024  (23022717)               493926.19
3761779.75       22.40164  (23022717)
        493937.84   3761778.74       22.59996  (23022717)               493952.54
3761780.26       22.53714  (23022717)
        493967.75   3761779.75       22.66171  (23022717)               493975.35
3761783.81       22.21995  (23022717)
        493989.54   3761780.26       22.64829  (23022717)               494000.19
3761781.78       22.85244  (23022503)
        494014.88   3761785.33       23.19109  (23022502)               494027.05
3761785.84       23.75613  (23022502)
        494049.35   3761786.34       24.52190  (23022502)               494066.08
3761786.34       26.45082  (22123116)
        494171.35   3761821.06       35.65082  (22123116)               494176.48
3761840.83       34.16275  (22123116)
        494171.35   3761886.24       29.75611  (22123116)               494831.53
3761814.80       32.29768  (22011418)
        494846.31   3761570.20       45.91260  (18022619)               494859.75
3761515.10       60.75302  (19061019)
        494839.59   3761451.93       82.65318  (19061019)               494863.63
3761459.20       67.13700  (19061019)
        494887.97   3761461.34       54.82171  (18020117)               494935.78
3761472.98       49.67250  (18121117)
        494961.89   3761422.37       49.93987  (18020918)               494996.53
3761368.08       49.67279  (23102622)
        494991.46   3761326.95       54.37476  (23120721)               495039.84
3761351.14       51.79517  (23102622)
```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: INBOUND ***
INCLUDING SOURCE(S): L0000423 , L0000424 , L0000425 , L0000426 , L0000427 ,
L0000428 , L0000429 , L0000430 , L0000431 , L0000432 , L0000433 , L0000434 , L0000435 ,
L0000436 , L0000437 , L0000438 , L0000439 , L0000440 , L0000441 , L0000442 , L0000443 ,
L0000444 , L0000445 , L0000446 , L0000447 , L0000448 , L0000449 , L0000450 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
495133.92	3761336.35	28.86405	(23120721)	495229.34	3761325.60	29.61877	(23120721)
495414.80	3761335.01	34.84078	(21070905)	495539.79	3761406.24	27.43233	(19022622)
495545.17	3761697.88	24.81790	(18021419)	495576.08	3761783.89	23.41033	(21020618)
495589.52	3761934.41	21.26165	(21020718)	495387.93	3761934.41	23.04087	(23010506)
495359.70	3761828.24	25.18024	(23011703)	495237.40	3761820.18	27.20006	(23010506)
495237.40	3762072.84	22.17019	(22012818)	495127.20	3762068.81	23.48607	(18120817)
495124.51	3761818.83	28.13694	(19022618)				

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: REFUELIN ***
INCLUDING SOURCE(S): VOL1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
495005.95	3761336.41	81.72556	(19011805)	495145.95	3761336.41	47.21916	(23010216)
495165.95	3761336.41	45.16224	(22011805)	495185.95	3761336.41	46.75959	(18010317)
495205.95	3761336.41	47.33651	(18010317)	495225.95	3761336.41	46.95367	(18010317)
495245.95	3761336.41	46.27558	(18010317)	495265.95	3761336.41	46.66081	(18010317)
495285.95	3761336.41	56.18735	(18010317)	495305.95	3761336.41	63.63827	(21122224)
495325.95	3761336.41	67.03632	(21122224)	495345.95	3761336.41	66.53130	(21122224)
495365.95	3761336.41	67.59693	(21122224)	495385.95	3761336.41	66.87328	(21122224)
495405.95	3761336.41	64.99858	(21122224)	495005.95	3761356.41	85.20470	(18011021)
495025.95	3761356.41	86.34959	(18011021)	495045.95	3761356.41	84.09325	(18011021)
495065.95	3761356.41	77.52221	(18011021)	495085.95	3761356.41	60.24215	(18011021)
495105.95	3761356.41	51.61464	(23010216)	495125.95	3761356.41	50.23475	(18010317)
495145.95	3761356.41	51.80960	(18010317)	495165.95	3761356.41	52.90222	(18010317)
495185.95	3761356.41	52.86252	(18010317)	495205.95	3761356.41	52.29558	(18010317)
495225.95	3761356.41	52.10513	(18010317)	495245.95	3761356.41	52.31540	(18010317)
495265.95	3761356.41	52.50205	(18010317)	495285.95	3761356.41	61.44842	(21122224)
495305.95	3761356.41	66.79087	(21122224)	495325.95	3761356.41	67.13810	(21122224)
495345.95	3761356.41	65.18895	(21122224)	495365.95	3761356.41	64.40286	(21122224)
495385.95	3761356.41	63.75777	(18052904)	495405.95			

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3761356.41       63.40359  (18052904)
        495425.95   3761356.41       62.71899  (18052904)                495445.95
3761356.41       62.18621  (18052904)
        495005.95   3761376.41       90.67350  (18011021)                495025.95
3761376.41       89.82582  (18011021)
        495045.95   3761376.41       86.90438  (18011021)                495065.95
3761376.41       81.98470  (18011021)
        495085.95   3761376.41       72.54212  (18010317)                495105.95
3761376.41       65.04596  (18010317)
        495125.95   3761376.41       61.60099  (18010317)                495145.95
3761376.41       60.47153  (18010317)
        495165.95   3761376.41       58.77283  (18010317)                495185.95
3761376.41       56.60110  (18010317)
        495205.95   3761376.41       54.88252  (18010317)                495225.95
3761376.41       54.74061  (18010317)
        495245.95   3761376.41       55.08635  (18010317)                495265.95
3761376.41       56.58058  (21122224)
        495285.95   3761376.41       63.81729  (21122224)                495305.95
3761376.41       65.14610  (18052904)
        495325.95   3761376.41       65.18533  (18052904)                495345.95
3761376.41       64.21753  (18052904)
        495365.95   3761376.41       63.78907  (18052904)                495385.95
3761376.41       63.16520  (18052904)
        495405.95   3761376.41       62.22000  (18052904)                495425.95
3761376.41       61.14586  (18052904)
        495445.95   3761376.41       60.12638  (18052904)                495465.95
3761376.41       58.39485  (18052904)
        495485.95   3761376.41       56.07139  (18052904)                494985.95
3761396.41       92.18244  (18011021)
        495005.95   3761396.41       90.05932  (18011021)                495025.95
3761396.41       87.44349  (18010317)
        495045.95   3761396.41       86.00331  (18010317)                495065.95
3761396.41       83.69908  (18010317)
        495085.95   3761396.41       78.51518  (18010317)                495105.95
3761396.41       70.35668  (18010317)
        495125.95   3761396.41       66.07656  (18010317)                495145.95
3761396.41       63.81043  (18010317)
        495165.95   3761396.41       61.00598  (18010317)                495185.95
3761396.41       58.90825  (23092203)
        495205.95   3761396.41       58.00863  (23092203)                495225.95
3761396.41       59.55195  (23092203)
        495245.95   3761396.41       61.73666  (23092203)                495265.95
3761396.41       62.09310  (18052904)
        495285.95   3761396.41       64.38135  (18052904)                495305.95
3761396.41       64.57207  (18052904)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                      ***        08:18:30
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: REFUELIN ***
INCLUDING SOURCE(S): VOL1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
495325.95	3761396.41	63.85931	(18052904)	495345.95	3761396.41	62.83364	(18052904)
495365.95	3761396.41	61.19703	(18052904)	495385.95	3761396.41	59.41517	(18052904)
495405.95	3761396.41	57.64068	(22101301)	495425.95	3761396.41	58.27977	(22101301)
495445.95	3761396.41	58.98224	(22101301)	495465.95	3761396.41	59.15050	(22101301)
495485.95	3761396.41	58.92216	(22101301)	495505.95	3761396.41	58.06037	(22101301)
494965.95	3761416.41	97.78533	(18010317)	494985.95	3761416.41	95.34754	(18010317)
495005.95	3761416.41	92.34745	(18010317)	495025.95	3761416.41	88.76264	(18010317)
495045.95	3761416.41	87.17068	(21122224)	495065.95	3761416.41	85.65573	(21122224)
495085.95	3761416.41	81.32081	(21122224)	495105.95	3761416.41	73.52097	(23092203)
495125.95	3761416.41	70.19340	(23092203)	495145.95	3761416.41	67.90669	(23092203)
495165.95	3761416.41	65.52649	(23092203)	495185.95	3761416.41	63.13806	(23092203)
495205.95	3761416.41	61.36943	(23092203)	495225.95	3761416.41	61.56603	(23092203)
495245.95	3761416.41	62.50016	(18052904)	495265.95	3761416.41	61.99293	(18052904)
495285.95	3761416.41	60.91200	(18052904)	495305.95	3761416.41	61.07835	(22101301)
495325.95	3761416.41	62.62393	(22101301)	495345.95	3761416.41	64.44230	(22101301)
495365.95	3761416.41	64.50135	(22101301)	495385.95	3761416.41	64.29710	(22101301)
495405.95	3761416.41	64.04910	(22101301)	495425.95			

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3761416.41       63.81806  (22101301)
        495445.95   3761416.41       63.59279  (22101301)               495465.95
3761416.41       62.99407  (22101301)
        495485.95   3761416.41       62.13723  (22101301)               495505.95
3761416.41       60.97667  (22101301)
        495525.95   3761416.41       59.44002  (22101301)               494965.95
3761436.41       97.91174  (18010317)
        494985.95   3761436.41       94.19463  (21122224)               495005.95
3761436.41       90.61088  (21122224)
        495025.95   3761436.41       87.72915  (23092203)               495045.95
3761436.41       85.73960  (23092203)
        495065.95   3761436.41       83.83366  (23092203)               495085.95
3761436.41       81.41450  (23092203)
        495105.95   3761436.41       77.66670  (23092203)               495125.95
3761436.41       73.37432  (23092203)
        495145.95   3761436.41       69.08481  (23092203)               495165.95
3761436.41       66.23199  (22100602)
        495185.95   3761436.41       64.80397  (22100602)               495205.95
3761436.41       63.75380  (22100602)
        495225.95   3761436.41       64.04161  (22100602)               495245.95
3761436.41       65.98747  (22101301)
        495265.95   3761436.41       65.74624  (22101301)               495285.95
3761436.41       65.64985  (22101301)
        495305.95   3761436.41       66.07302  (22101301)               495325.95
3761436.41       67.72042  (22101301)
        495345.95   3761436.41       69.88081  (22101301)               495365.95
3761436.41       68.95651  (22101301)
        495385.95   3761436.41       67.63797  (22101301)               495405.95
3761436.41       66.35586  (22101301)
        495425.95   3761436.41       65.14496  (22101301)               495445.95
3761436.41       63.92839  (22101301)
        495465.95   3761436.41       62.55016  (22101301)               495485.95
3761436.41       61.11358  (22101301)
        495505.95   3761436.41       59.61572  (22101301)               495525.95
3761436.41       58.25985  (22101007)
        494845.95   3761456.41      123.93439  (18010317)               494945.95
3761456.41       99.76657  (23092203)
        494965.95   3761456.41       98.18712  (23092203)               494985.95
3761456.41       95.07563  (23092203)
        495005.95   3761456.41       90.85656  (23092203)               495025.95
3761456.41       87.03318  (23092203)
        495045.95   3761456.41       83.59052  (23092203)               495065.95
3761456.41       82.29395  (22100602)
        495085.95   3761456.41       80.56422  (22100602)               495105.95
3761456.41       78.60329  (22100602)
        495125.95   3761456.41       76.14872  (22100602)               495145.95
3761456.41       73.32034  (22100602)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: REFUELIN ***
INCLUDING SOURCE(S): VOL1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
495165.95	3761456.41	70.91834	(23120721)	495185.95	3761456.41	69.52841	(23120721)
495205.95	3761456.41	68.48035	(23120721)	495225.95	3761456.41	68.85967	(22101301)
495245.95	3761456.41	70.67175	(22101301)	495265.95	3761456.41	68.98006	(22101301)
495285.95	3761456.41	67.82013	(22101301)	495305.95	3761456.41	67.52005	(22101301)
495325.95	3761456.41	68.37231	(22101301)	495345.95	3761456.41	69.41608	(22101301)
495365.95	3761456.41	67.51408	(22101007)	495385.95	3761456.41	66.46707	(22101007)
495405.95	3761456.41	65.60872	(22101007)	495425.95	3761456.41	65.00087	(22101007)
495445.95	3761456.41	64.57099	(22101007)	495465.95	3761456.41	63.46262	(22101007)
495485.95	3761456.41	62.39244	(22101007)	495505.95	3761456.41	61.43424	(22101007)
495525.95	3761456.41	60.54142	(22101007)	494865.95	3761476.41	116.35677	(23092203)
494885.95	3761476.41	112.67757	(23092203)	494905.95	3761476.41	107.82923	(23092203)
494925.95	3761476.41	102.81043	(23092203)	494945.95	3761476.41	99.71687	(22100602)
494965.95	3761476.41	97.62523	(22100602)	494985.95	3761476.41	95.15814	(22100602)
495005.95	3761476.41	91.77100	(22100602)	495025.95	3761476.41	90.01138	(23120721)
495045.95	3761476.41	88.69303	(23120721)	495065.95	3761476.41	87.31547	(23120721)
495085.95	3761476.41	85.49980	(23120721)	495105.95			

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3761476.41       83.63087  (23120721)
        495125.95   3761476.41       81.53281  (23120721)                495145.95
3761476.41       79.15865  (23120721)
        495165.95   3761476.41       76.58641  (23120721)                495185.95
3761476.41       74.51469  (23120721)
        495205.95   3761476.41       72.66486  (23120721)                495225.95
3761476.41       71.25305  (23120721)
        495245.95   3761476.41       70.85161  (22101007)                495265.95
3761476.41       69.40555  (22101007)
        495285.95   3761476.41       68.58814  (22101007)                495305.95
3761476.41       68.59729  (22101007)
        495325.95   3761476.41       69.63180  (22101007)                495345.95
3761476.41       70.89585  (22101007)
        495365.95   3761476.41       69.22525  (22101007)                495385.95
3761476.41       67.55877  (22101007)
        495405.95   3761476.41       66.21328  (22101007)                495425.95
3761476.41       65.23579  (22101007)
        495445.95   3761476.41       64.54361  (22101007)                495465.95
3761476.41       62.82003  (22101007)
        495485.95   3761476.41       61.21712  (22101007)                495505.95
3761476.41       59.83548  (22101007)
        495525.95   3761476.41       58.61460  (22101007)                494865.95
3761496.41      118.80256  (23120721)
        494885.95   3761496.41      116.65998  (23120721)                494905.95
3761496.41      113.72198  (23120721)
        494925.95   3761496.41      110.94270  (23120721)                494945.95
3761496.41      108.16678  (23120721)
        494965.95   3761496.41      105.31217  (23120721)                494985.95
3761496.41      102.32697  (23120721)
        495005.95   3761496.41       98.68589  (23120721)                495025.95
3761496.41       95.81631  (23120721)
        495045.95   3761496.41       93.23002  (23120721)                495065.95
3761496.41       90.60783  (23120721)
        495085.95   3761496.41       87.73249  (23120721)                495105.95
3761496.41       84.60585  (23120721)
        495125.95   3761496.41       81.62216  (23120721)                495145.95
3761496.41       78.67563  (23120721)
        495165.95   3761496.41       76.09206  (22101007)                495185.95
3761496.41       75.32653  (22101007)
        495205.95   3761496.41       74.36812  (22101007)                495225.95
3761496.41       73.39663  (22101007)
        495245.95   3761496.41       72.19434  (22101007)                495265.95
3761496.41       70.34170  (22101007)
        495285.95   3761496.41       69.07689  (22101007)                495305.95
3761496.41       68.22096  (22101007)
        495325.95   3761496.41       67.88167  (22101007)                495345.95
3761496.41       67.55829  (22101007)
        495365.95   3761496.41       65.36860  (22101007)                495385.95
3761496.41       63.66551  (21070905)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                             *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: REFUELIN ***
                                INCLUDING SOURCE(S):   VOL1   ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                   ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 -
        495405.95   3761496.41   62.98227 (21070905)   495425.95   3761496.41   62.60911 (21070905)
        495445.95   3761496.41   62.47259 (21070905)   495465.95   3761496.41   61.37217 (21070905)
        495485.95   3761496.41   60.34743 (21070905)   495505.95   3761496.41   59.50958 (21070905)
        495525.95   3761496.41   58.83757 (21070905)   494865.95   3761516.41   129.62627 (23120721)
        494885.95   3761516.41   124.82316 (23120721)   494905.95   3761516.41   118.95107 (23120721)
        494925.95   3761516.41   114.20263 (23120721)   494945.95   3761516.41   109.79700 (23120721)
        494965.95   3761516.41   105.42429 (23120721)   494985.95   3761516.41   101.02930 (23120721)
        495005.95   3761516.41   95.95758 (23120721)   495025.95   3761516.41   91.94829 (23120721)
        495045.95   3761516.41   88.43485 (23120721)   495065.95   3761516.41   85.72942 (22091124)
        495085.95   3761516.41   83.99342 (18040602)   495105.95   3761516.41   82.21485 (18040602)
        495125.95   3761516.41   80.59267 (18040602)   495145.95   3761516.41   79.00716 (18040602)
        495165.95   3761516.41   77.31361 (18040602)   495185.95   3761516.41   76.10522 (18040602)
        495205.95   3761516.41   75.15349 (21070905)   495225.95   3761516.41   74.32462 (21070905)
        495245.95   3761516.41   73.46152 (21070905)   495265.95   3761516.41   72.39819 (21070905)
        495285.95   3761516.41   71.61788 (21070905)   495305.95

3761516.41 71.03913 (21070905)
495325.95 3761516.41 70.61796 (21070905) 495345.95
3761516.41 70.16550 (21070905)
495365.95 3761516.41 68.78110 (21070905) 495385.95
3761516.41 67.55994 (21070905)
495405.95 3761516.41 66.62682 (21070905) 495425.95
3761516.41 66.02242 (21070905)
495445.95 3761516.41 65.66590 (21070905) 495465.95
3761516.41 64.19648 (21070905)
495485.95 3761516.41 62.81459 (21070905) 495505.95
3761516.41 61.65790 (21070905)
495525.95 3761516.41 60.71588 (21070905) 494865.95
3761536.41 122.75670 (23120721)
494885.95 3761536.41 116.41486 (23120721) 494905.95
3761536.41 109.35587 (23120721)
494925.95 3761536.41 104.66742 (23102622) 494945.95
3761536.41 103.09729 (18040602)
494965.95 3761536.41 101.53341 (18040602) 494985.95
3761536.41 99.29197 (18040602)
495005.95 3761536.41 95.24768 (18040602) 495025.95
3761536.41 93.24417 (18040602)
495045.95 3761536.41 92.29796 (18040602) 495065.95
3761536.41 91.42441 (18040602)
495085.95 3761536.41 89.50049 (18040602) 495105.95
3761536.41 87.15004 (18040602)
495125.95 3761536.41 85.06325 (18040602) 495145.95
3761536.41 83.06907 (18040602)
495165.95 3761536.41 81.07729 (23102622) 495185.95
3761536.41 79.41563 (21070905)
495205.95 3761536.41 77.96058 (21070905) 495225.95
3761536.41 76.59306 (21070905)
495245.95 3761536.41 75.23053 (21070905) 495265.95
3761536.41 73.83453 (21070905)
495285.95 3761536.41 72.65000 (21070905) 495305.95
3761536.41 71.55903 (21070905)
495325.95 3761536.41 70.50553 (21070905) 495345.95
3761536.41 69.40019 (21070905)
495365.95 3761536.41 67.97122 (21070905) 495385.95
3761536.41 66.62134 (21070905)
495405.95 3761536.41 65.47607 (21070905) 495425.95
3761536.41 64.56391 (21070905)
495445.95 3761536.41 63.85284 (21070905) 495465.95
3761536.41 62.34033 (21070905)
495485.95 3761536.41 60.85173 (21070905) 495505.95
3761536.41 59.54810 (21070905)
495525.95 3761536.41 58.43068 (21070905) 494865.95
3761556.41 122.35817 (23102622)
494885.95 3761556.41 119.54610 (23102622) 494905.95
3761556.41 114.15858 (23102622)
494925.95 3761556.41 111.13559 (23102622) 494945.95

                             *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: REFUELIN ***
                                 INCLUDING SOURCE(S):   VOL1   ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        494965.95   3761556.41   106.41019 (23102622)   494985.95
3761556.41   103.40953 (23102622)
        495005.95   3761556.41   99.30414 (23102622)   495025.95
3761556.41   96.90565 (23102622)
        495045.95   3761556.41   95.41010 (23102622)   495065.95
3761556.41   93.86615 (23102622)
        495085.95   3761556.41   91.20159 (23102622)   495105.95
3761556.41   88.78915 (23102622)
        495125.95   3761556.41   86.65652 (23102622)   495145.95
3761556.41   84.56514 (23102622)
        495165.95   3761556.41   82.35269 (23102622)   495185.95
3761556.41   80.28756 (23102622)
        495205.95   3761556.41   78.33558 (23102622)   495225.95
3761556.41   76.48441 (23102622)
        495245.95   3761556.41   74.68352 (23102622)   495265.95
3761556.41   72.92143 (23102622)
        495285.95   3761556.41   71.29017 (23102622)   495305.95
3761556.41   69.72822 (23102622)
        495325.95   3761556.41   68.23694 (23102622)   495345.95
3761556.41   66.79472 (23102622)
        495365.95   3761556.41   65.39356 (23102622)   495385.95
3761556.41   63.98774 (23102622)
        495405.95   3761556.41   62.65207 (23102622)   495425.95
3761556.41   61.41088 (23102622)
        495445.95   3761556.41   60.24611 (23102622)   495465.95
3761556.41   58.92612 (23102622)
        495485.95   3761556.41   57.60697 (23102622)   495505.95

3761556.41 56.35610 (23102622)
495525.95 3761556.41 55.18077 (23102622) 494845.95
3761576.41 118.62862 (23102622)
494865.95 3761576.41 115.86134 (23102622) 494885.95
3761576.41 112.76898 (23102622)
494905.95 3761576.41 107.77225 (23102622) 494925.95
3761576.41 104.63587 (23102622)
494945.95 3761576.41 102.27477 (23102622) 494965.95
3761576.41 99.76926 (23102622)
494985.95 3761576.41 96.66905 (23102622) 495005.95
3761576.41 93.21836 (23102622)
495025.95 3761576.41 90.85899 (23102622) 495045.95
3761576.41 89.03706 (23102622)
495065.95 3761576.41 87.10930 (23102622) 495085.95
3761576.41 84.28714 (23102622)
495105.95 3761576.41 81.95127 (23102622) 495125.95
3761576.41 79.94538 (23102622)
495145.95 3761576.41 78.00069 (23102622) 495165.95
3761576.41 76.04610 (23102622)
495185.95 3761576.41 74.16291 (23102622) 495205.95
3761576.41 72.34590 (23102622)
495225.95 3761576.41 70.57171 (23102622) 495245.95
3761576.41 68.85125 (23102622)
495265.95 3761576.41 67.15785 (19022622) 495285.95
3761576.41 66.06728 (19022622)
495305.95 3761576.41 64.91015 (19022622) 495325.95
3761576.41 63.77979 (19022622)
495345.95 3761576.41 62.72036 (19022622) 495365.95
3761576.41 61.77673 (19022622)
495385.95 3761576.41 60.78948 (19022622) 495405.95
3761576.41 59.79508 (19022622)
495425.95 3761576.41 58.88573 (19022622) 495445.95
3761576.41 58.23067 (19022622)
495465.95 3761576.41 57.35990 (19022622) 495485.95
3761576.41 56.39213 (19022622)
495505.95 3761576.41 55.54067 (19022622) 495525.95
3761576.41 54.82893 (19022622)
494845.95 3761596.41 108.00361 (22011318) 494865.95
3761596.41 104.02028 (21020218)
494885.95 3761596.41 100.73923 (21020218) 494905.95
3761596.41 96.05269 (21020218)
494925.95 3761596.41 92.81618 (22120519) 494945.95
3761596.41 90.89608 (22120519)
494965.95 3761596.41 89.43572 (19120820) 494985.95
3761596.41 87.12820 (19120820)
495005.95 3761596.41 84.83188 (19120820) 495025.95
3761596.41 83.40820 (19120820)
495045.95 3761596.41 82.39198 (19120820) 495065.95
3761596.41 81.03189 (19120820)
495085.95 3761596.41 78.45037 (19120820) 495105.95

3761596.41   76.69290 (19120820)
        495125.95   3761596.41   75.28632 (19120820)   495145.95
3761596.41   73.98832 (19120820)

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: REFUELIN ***
                                  INCLUDING SOURCE(S):   VOL1   ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        495165.95   3761596.41   72.63104 (19120820)   495185.95
3761596.41   71.27206 (19120820)
        495205.95   3761596.41   69.90085 (19120820)   495225.95
3761596.41   68.54190 (19120820)
        495245.95   3761596.41   67.18482 (19120820)   495265.95
3761596.41   65.81122 (19120820)
        495285.95   3761596.41   64.40813 (19120820)   495305.95
3761596.41   62.96721 (19120820)
        495325.95   3761596.41   61.56331 (19120820)   495345.95
3761596.41   60.22314 (19120820)
        495365.95   3761596.41   58.98009 (19120820)   495385.95
3761596.41   57.78114 (19120820)
        495405.95   3761596.41   56.57033 (19120820)   495425.95
3761596.41   55.50698 (21123120)
        495445.95   3761596.41   54.56494 (21123120)   495465.95
3761596.41   53.66855 (21123120)
        495485.95   3761596.41   52.76204 (21123120)   495505.95
3761596.41   51.91727 (21123120)
        495525.95   3761596.41   51.17317 (19022622)   494845.95
3761616.41   107.83610 (18020918)
        494865.95   3761616.41   104.05261 (18020918)   494885.95
3761616.41   100.18343 (18020918)
        494905.95   3761616.41   95.70192 (21020218)   494925.95
3761616.41   92.79854 (21020218)
        494945.95   3761616.41   91.37597 (22120520)   494965.95

3761616.41 90.19426 (22120520)
494985.95 3761616.41 87.92000 (22120520) 495005.95
3761616.41 85.92097 (22120520)
495025.95 3761616.41 84.51261 (22120520) 495045.95
3761616.41 83.21583 (22120520)
495065.95 3761616.41 81.60021 (22120520) 495085.95
3761616.41 79.02577 (22120520)
495105.95 3761616.41 77.19957 (22120520) 495125.95
3761616.41 75.64528 (22120520)
495145.95 3761616.41 74.19663 (22120520) 495165.95
3761616.41 72.75483 (22120520)
495185.95 3761616.41 71.23829 (22120520) 495205.95
3761616.41 69.74907 (22120520)
495225.95 3761616.41 68.56085 (19120820) 495245.95
3761616.41 67.40519 (19120820)
495265.95 3761616.41 66.28184 (19120820) 495285.95
3761616.41 65.08052 (19120820)
495305.95 3761616.41 63.87395 (19120820) 495325.95
3761616.41 62.65963 (19120820)
495345.95 3761616.41 61.46298 (19120820) 495365.95
3761616.41 60.31830 (19120820)
495385.95 3761616.41 59.29109 (19120820) 495405.95
3761616.41 58.24937 (19120820)
495425.95 3761616.41 57.16138 (19120820) 495445.95
3761616.41 55.98419 (19120820)
495465.95 3761616.41 54.96462 (19120820) 495485.95
3761616.41 53.97921 (19120820)
495505.95 3761616.41 53.05868 (19120820) 495525.95
3761616.41 52.18943 (19120820)
494845.95 3761636.41 107.48084 (18020918) 494865.95
3761636.41 105.27515 (18020918)
494885.95 3761636.41 102.59056 (18020918) 494905.95
3761636.41 98.40831 (18020918)
494925.95 3761636.41 95.38177 (18020918) 494945.95
3761636.41 93.13636 (18020918)
494965.95 3761636.41 91.10321 (22122923) 494985.95
3761636.41 88.11569 (22122923)
495005.95 3761636.41 85.52946 (22122923) 495025.95
3761636.41 83.29471 (22122923)
495045.95 3761636.41 81.47890 (19122417) 495065.95
3761636.41 80.08971 (19122417)
495085.95 3761636.41 77.84171 (19122417) 495105.95
3761636.41 76.15003 (19122417)
495125.95 3761636.41 74.84791 (19122417) 495145.95
3761636.41 73.59150 (19122417)
495165.95 3761636.41 72.13169 (19122417) 495185.95
3761636.41 70.65215 (21021618)
495205.95 3761636.41 69.39801 (22120520) 495225.95
3761636.41 68.18955 (22120520)
495245.95 3761636.41 67.00928 (22120520) 495265.95

3761636.41 65.83138 (22120520)
 495285.95 3761636.41 64.63408 (22120520) 495305.95
3761636.41 63.40595 (22120520)
 495325.95 3761636.41 62.15917 (22120520) 495345.95
3761636.41 60.92629 (22120520)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: REFUELIN ***
INCLUDING SOURCE(S): VOL1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
495365.95	3761636.41	59.73070	(22120520)	495385.95	3761636.41	58.61960	(22120520)
495405.95	3761636.41	57.58897	(22120520)	495425.95	3761636.41	56.55507	(22120520)
495445.95	3761636.41	55.43482	(22120520)	495465.95	3761636.41	54.28544	(22120520)
495485.95	3761636.41	53.20695	(22120520)	495505.95	3761636.41	52.26043	(22120123)
495525.95	3761636.41	51.63466	(22120123)	494845.95	3761656.41	104.79669	(19122419)
494865.95	3761656.41	101.88216	(19021703)	494885.95	3761656.41	98.57323	(19021703)
494905.95	3761656.41	94.53970	(22011821)	494925.95	3761656.41	92.31240	(22011821)
494945.95	3761656.41	90.44687	(22011821)	494965.95	3761656.41	88.48533	(23020619)
494985.95	3761656.41	86.11916	(23022204)	495005.95	3761656.41	84.54296	(22122923)
495025.95	3761656.41	83.12014	(22122923)	495045.95	3761656.41	81.83456	(22122923)
495065.95	3761656.41	80.35493	(22122923)	495085.95	3761656.41	78.19172	(22122923)
495105.95	3761656.41	76.42809	(22122923)	495125.95			

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3761656.41       75.01460  (22122923)
        495145.95   3761656.41       73.58425  (22122923)                495165.95
3761656.41       72.05258  (23120117)
        495185.95   3761656.41       71.06366  (23120117)                495205.95
3761656.41       69.94640  (23120117)
        495225.95   3761656.41       68.77810  (23120117)                495245.95
3761656.41       67.60087  (23120117)
        495265.95   3761656.41       66.40120  (23120117)                495285.95
3761656.41       65.21867  (23120117)
        495305.95   3761656.41       63.96204  (23120117)                495325.95
3761656.41       62.66147  (23120117)
        495345.95   3761656.41       61.34008  (23120117)                495365.95
3761656.41       59.97812  (23120117)
        495385.95   3761656.41       58.70100  (23120117)                495405.95
3761656.41       57.91558  (22120817)
        495425.95   3761656.41       57.20972  (22120817)                495445.95
3761656.41       56.40094  (22120817)
        495465.95   3761656.41       55.22721  (22120817)                495485.95
3761656.41       54.15723  (22120817)
        495505.95   3761656.41       53.20902  (22120817)                495525.95
3761656.41       52.29961  (22120817)
        494845.95   3761676.41      104.99048  (19022819)                494865.95
3761676.41      102.94972  (19022819)
        494885.95   3761676.41       99.93537  (19022819)                494905.95
3761676.41       95.53175  (19022819)
        494925.95   3761676.41       93.02504  (19122419)                494945.95
3761676.41       90.71952  (19122419)
        494965.95   3761676.41       87.82184  (19122419)                494985.95
3761676.41       84.52482  (19021703)
        495005.95   3761676.41       81.93563  (23020619)                495025.95
3761676.41       81.48690  (23020619)
        495045.95   3761676.41       80.91441  (23020619)                495065.95
3761676.41       79.95710  (23020619)
        495085.95   3761676.41       78.04740  (23020619)                495105.95
3761676.41       76.67445  (23020619)
        495125.95   3761676.41       75.59029  (23020619)                495145.95
3761676.41       74.42348  (23020619)
        495165.95   3761676.41       72.96699  (23020619)                495185.95
3761676.41       71.34165  (23020619)
        495205.95   3761676.41       69.61930  (23020619)                495225.95
3761676.41       67.82245  (23020619)
        495245.95   3761676.41       65.99903  (23020619)                495265.95
3761676.41       64.70407  (19021524)
        495285.95   3761676.41       63.88018  (19021524)                495305.95
3761676.41       62.97148  (19021524)
        495325.95   3761676.41       61.99135  (19021524)                495345.95
3761676.41       61.10751  (23120117)
        495365.95   3761676.41       60.08529  (23120117)                495385.95
3761676.41       59.10785  (23120117)
        495405.95   3761676.41       58.23032  (23120117)                495425.95
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: REFUELIN ***
                                  INCLUDING SOURCE(S):   VOL1   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        494865.95   3761696.41   102.33791 (18011919)   494885.95
3761696.41   99.11241 (18021718)
        494905.95   3761696.41   94.81623 (18021718)   494925.95
3761696.41   91.88693 (19021522)
        494945.95   3761696.41   90.03327 (19022819)   494965.95
3761696.41   88.03031 (19022819)
        494985.95   3761696.41   85.21390 (19022819)   495005.95
3761696.41   83.19937 (19122419)
        495025.95   3761696.41   81.38131 (19122419)   495045.95
3761696.41   79.29412 (19122419)
        495065.95   3761696.41   76.83500 (19122419)   495085.95
3761696.41   74.99726 (23121820)
        495105.95   3761696.41   74.31655 (23121820)   495125.95
3761696.41   73.60136 (23121820)
        495145.95   3761696.41   72.72306 (23121820)   495165.95
3761696.41   71.61351 (23020619)
        495185.95   3761696.41   70.72385 (23020619)   495205.95
3761696.41   69.83565 (23020619)
        495225.95   3761696.41   68.88914 (23020619)   495245.95
3761696.41   67.78108 (23020619)
        495265.95   3761696.41   66.42656 (23020619)   495285.95

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3761696.41       65.17573  (23020619)
        495305.95   3761696.41       63.94821  (23020619)                495325.95
3761696.41       62.64500  (23020619)
        495345.95   3761696.41       61.23356  (23020619)                495365.95
3761696.41       59.74768  (23020619)
        495385.95   3761696.41       58.19255  (23020619)                495405.95
3761696.41       57.27217  (19021524)
        495425.95   3761696.41       56.59954  (19021524)                495445.95
3761696.41       56.12351  (19021524)
        495465.95   3761696.41       55.47521  (19021524)                495485.95
3761696.41       54.57340  (19021524)
        495505.95   3761696.41       53.59556  (19021524)                495525.95
3761696.41       52.63362  (19021524)
        494845.95   3761716.41      105.23319  (22021918)                494865.95
3761716.41      101.21649  (22021918)
        494885.95   3761716.41       96.92448  (18121117)                494905.95
3761716.41       94.38516  (18121117)
        494925.95   3761716.41       92.45454  (18121117)                494945.95
3761716.41       90.25146  (19021522)
        494965.95   3761716.41       88.73067  (19021522)                494985.95
3761716.41       86.12102  (19021522)
        495005.95   3761716.41       83.51621  (19021522)                495025.95
3761716.41       81.00484  (19021522)
        495045.95   3761716.41       79.52840  (22123004)                495065.95
3761716.41       78.23967  (22123004)
        495085.95   3761716.41       76.29070  (22123004)                495105.95
3761716.41       74.66809  (22123004)
        495125.95   3761716.41       73.05956  (23123019)                495145.95
3761716.41       71.25550  (23123019)
        495165.95   3761716.41       69.46551  (23121820)                495185.95
3761716.41       68.88764  (23121820)
        495205.95   3761716.41       68.53876  (23121820)                495225.95
3761716.41       68.17501  (23121820)
        495245.95   3761716.41       67.49495  (23121820)                495265.95
3761716.41       66.13983  (23121820)
        495285.95   3761716.41       64.94670  (23121820)                495305.95
3761716.41       63.90671  (23121820)
        495325.95   3761716.41       62.76258  (23121820)                495345.95
3761716.41       61.42808  (23121820)
        495365.95   3761716.41       60.55805  (23020619)                495385.95
3761716.41       59.59367  (23020619)
        495405.95   3761716.41       58.51211  (23020619)                495425.95
3761716.41       57.41036  (23020619)
        495445.95   3761716.41       56.40710  (23020619)                495465.95
3761716.41       55.51495  (23020619)
        495485.95   3761716.41       54.29947  (23020619)                495505.95
3761716.41       52.97146  (23020619)
        495525.95   3761716.41       51.63538  (23020619)                495545.95
3761716.41       50.89542  (19021524)
        494845.95   3761736.41      102.43660  (22021918)                494865.95
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3761736.41   101.75126 (22021918)
        494885.95   3761736.41   99.16444 (22021918)   494905.95
3761736.41   95.35194 (22021918)
        494925.95   3761736.41   92.06336 (22021918)   494945.95
3761736.41   89.13728 (22022023)
        494965.95   3761736.41   88.28281 (21021918)   494985.95
3761736.41   85.75127 (21021918)
        495005.95   3761736.41   83.49141 (21021918)   495025.95
3761736.41   82.09744 (19021522)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: REFUELIN ***
                                 INCLUDING SOURCE(S):   VOL1   ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        495045.95   3761736.41   80.72092 (19021522)   495065.95
3761736.41   78.63155 (19021522)
        495085.95   3761736.41   76.05763 (19021522)   495105.95
3761736.41   73.85787 (22011802)
        495125.95   3761736.41   73.21238 (22123004)   495145.95
3761736.41   72.32415 (22123004)
        495165.95   3761736.41   71.14304 (22123004)   495185.95
3761736.41   69.71523 (23123019)
        495205.95   3761736.41   68.62027 (23123019)   495225.95
3761736.41   67.56605 (23123019)
        495245.95   3761736.41   66.19201 (23123019)   495265.95
3761736.41   64.47974 (21121817)
        495285.95   3761736.41   63.58945 (21121817)   495305.95
3761736.41   62.86053 (21121817)
        495325.95   3761736.41   62.25730 (23121820)   495345.95
3761736.41   61.50939 (23121820)
        495365.95   3761736.41   60.91604 (23121820)   495385.95
3761736.41   60.23349 (23121820)
        495405.95   3761736.41   59.27431 (23121820)   495425.95

3761736.41 58.13338 (23121820)
495445.95 3761736.41 57.01284 (23121820) 495465.95
3761736.41 56.25980 (23121820)
495485.95 3761736.41 55.09220 (23121820) 495505.95
3761736.41 53.71927 (23121820)
495525.95 3761736.41 52.67081 (23020619) 495545.95
3761736.41 51.75802 (23020619)
494845.95 3761756.41 99.73966 (18021420) 494865.95
3761756.41 97.68627 (18021420)
494885.95 3761756.41 93.90509 (18021420) 494905.95
3761756.41 92.66865 (22021918)
494925.95 3761756.41 92.32543 (22021918) 494945.95
3761756.41 91.24316 (22021918)
494965.95 3761756.41 88.99795 (22021918) 494985.95
3761756.41 85.42949 (22021918)
495005.95 3761756.41 83.23801 (21021918) 495025.95
3761756.41 82.73079 (21021918)
495045.95 3761756.41 81.39480 (21021918) 495065.95
3761756.41 79.24052 (21021918)
495085.95 3761756.41 76.53491 (21021918) 495105.95
3761756.41 74.37025 (19021522)
495125.95 3761756.41 73.33223 (22011802) 495145.95
3761756.41 71.99169 (22011802)
495165.95 3761756.41 70.29362 (22011802) 495185.95
3761756.41 68.04937 (22011802)
495205.95 3761756.41 67.43346 (22123004) 495225.95
3761756.41 66.93207 (22123004)
495245.95 3761756.41 66.34049 (23123019) 495265.95
3761756.41 65.06639 (23123019)
495285.95 3761756.41 63.84310 (23123019) 495305.95
3761756.41 62.66917 (23123019)
495325.95 3761756.41 61.34483 (23123019) 495345.95
3761756.41 59.81166 (23123019)
495365.95 3761756.41 59.06796 (21121817) 495385.95
3761756.41 58.77493 (21121817)
495405.95 3761756.41 58.20181 (21121817) 495425.95
3761756.41 57.40628 (21121817)
495445.95 3761756.41 56.58213 (21121817) 495465.95
3761756.41 56.14252 (23121820)
495485.95 3761756.41 55.51564 (23121820) 495505.95
3761756.41 54.71092 (23121820)
495525.95 3761756.41 53.80588 (23121820) 495545.95
3761756.41 52.89478 (23121820)
495565.95 3761756.41 51.89228 (23121820) 494845.95
3761776.41 95.76744 (22122718)
494865.95 3761776.41 95.07172 (22122718) 494885.95
3761776.41 92.73439 (22122718)
494905.95 3761776.41 91.10278 (18021420) 494925.95
3761776.41 89.04082 (18021420)
494945.95 3761776.41 86.26992 (22021918) 494965.95

3761776.41   86.68324 (22021918)
        494985.95   3761776.41   85.92595 (22021918)   495005.95
3761776.41   84.56782 (22021918)
        495025.95   3761776.41   82.43119 (22021918)   495045.95
3761776.41   79.59339 (22021918)
        495065.95   3761776.41   78.19786 (21021918)   495085.95
3761776.41   77.40110 (21021918)
        495105.95   3761776.41   76.42689 (21021918)   495125.95
3761776.41   75.01394 (21021918)
        495145.95   3761776.41   73.09957 (21021918)   495165.95
3761776.41   71.01914 (21010906)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: REFUELIN ***
                                  INCLUDING SOURCE(S):   VOL1   ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        495185.95   3761776.41   69.31774 (21010906)   495205.95
3761776.41   67.43485 (21010906)
        495225.95   3761776.41   66.03312 (22011802)   495245.95
3761776.41   64.58267 (22011802)
        495265.95   3761776.41   62.63246 (22011802)   495285.95
3761776.41   61.95678 (22123004)
        495305.95   3761776.41   61.42978 (22123004)   495325.95
3761776.41   60.88449 (23123019)
        495345.95   3761776.41   60.20887 (23123019)   495365.95
3761776.41   59.48814 (23123019)
        495385.95   3761776.41   58.64202 (23123019)   495405.95
3761776.41   57.55493 (23123019)
        495425.95   3761776.41   56.29754 (23123019)   495445.95
3761776.41   54.99779 (23123019)
        495465.95   3761776.41   54.34615 (21121817)   495485.95
3761776.41   53.99406 (21121817)
        495505.95   3761776.41   53.51418 (21121817)   495525.95

3761776.41 52.93721 (21121817)
495545.95 3761776.41 52.33670 (21121817) 495565.95
3761776.41 51.69631 (21121817)
494845.95 3761796.41 96.47989 (19061019) 494865.95
3761796.41 93.88823 (19011206)
494885.95 3761796.41 90.90036 (23123018) 494905.95
3761796.41 89.89903 (22122718)
494925.95 3761796.41 88.56300 (22122718) 494945.95
3761796.41 87.31741 (18021420)
494965.95 3761796.41 85.90284 (18021420) 494985.95
3761796.41 83.36058 (18021420)
495005.95 3761796.41 81.90478 (23021318) 495025.95
3761796.41 81.36270 (22021918)
495045.95 3761796.41 80.66047 (22021918) 495065.95
3761796.41 79.21993 (22021918)
495085.95 3761796.41 77.10424 (22021918) 495105.95
3761796.41 74.51367 (22021918)
495125.95 3761796.41 73.95144 (21021918) 495145.95
3761796.41 73.56862 (21021918)
495165.95 3761796.41 72.59633 (21021918) 495185.95
3761796.41 70.85689 (21021918)
495205.95 3761796.41 68.76772 (21021918) 495225.95
3761796.41 66.57249 (21021918)
495245.95 3761796.41 65.42957 (21010906) 495265.95
3761796.41 64.00698 (21010906)
495285.95 3761796.41 62.38869 (21010906) 495305.95
3761796.41 60.72166 (22011802)
495325.95 3761796.41 59.37037 (22011802) 495345.95
3761796.41 57.84214 (22011802)
495365.95 3761796.41 57.14932 (22123004) 495385.95
3761796.41 56.77469 (22123004)
495405.95 3761796.41 56.44721 (23123019) 495425.95
3761796.41 55.96409 (23123019)
495445.95 3761796.41 55.34988 (23123019) 495465.95
3761796.41 54.60599 (23123019)
495485.95 3761796.41 53.74235 (23123019) 495505.95
3761796.41 52.76896 (23123019)
495525.95 3761796.41 51.69577 (23123019) 495545.95
3761796.41 50.54633 (23123019)
495565.95 3761796.41 50.07756 (21121817) 494965.95
3761816.41 84.75384 (23123018)
494985.95 3761816.41 83.08590 (19120407) 495005.95
3761816.41 82.02970 (18021420)
495025.95 3761816.41 80.09586 (18021420) 495045.95
3761816.41 78.06356 (23021318)
495065.95 3761816.41 77.58337 (23021318) 495085.95
3761816.41 76.35677 (23021318)
495105.95 3761816.41 75.42201 (22021918) 495125.95
3761816.41 74.14629 (22021918)
495145.95 3761816.41 72.23843 (22021918) 495165.95

3761816.41 70.00383 (19020618)
  495185.95 3761816.41 69.31748 (19020618) 495205.95
3761816.41 68.48812 (21021918)
  495225.95 3761816.41 67.65679 (21021918) 495245.95
3761816.41 66.54019 (21021918)
  495265.95 3761816.41 64.98699 (21021918) 495285.95
3761816.41 63.15114 (21021918)
  495305.95 3761816.41 61.80390 (21010906) 495325.95
3761816.41 60.81054 (21010906)
  495345.95 3761816.41 59.62313 (21010906) 495365.95
3761816.41 58.19864 (21010906)
  495385.95 3761816.41 56.53567 (21010906) 495405.95
3761816.41 55.02122 (22011802)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: REFUELIN ***
INCLUDING SOURCE(S): VOL1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
495425.95	3761816.41	53.69561	(18100723)	495445.95	3761816.41	52.80619	(23011922)
495465.95	3761816.41	52.49729	(23011922)	495485.95	3761816.41	52.31701	(23123019)
495505.95	3761816.41	52.01920	(23123019)	495525.95	3761816.41	51.60063	(23123019)
495545.95	3761816.41	51.06127	(23123019)	495565.95	3761816.41	50.43627	(23123019)
495125.95	3761836.41	73.46788	(23021318)	495145.95	3761836.41	72.14405	(23021318)
495165.95	3761836.41	70.56067	(18021819)	495185.95	3761836.41	69.14270	(18021819)
495205.95	3761836.41	67.38177	(18021819)	495225.95	3761836.41	65.92302	(22022020)
495365.95	3761836.41	58.54866	(21010906)	495385.95			

3761836.41 57.75742 (21010906)
495405.95 3761836.41 56.70930 (21010906) 495425.95
3761836.41 55.45586 (21010906)
495445.95 3761836.41 54.05562 (21010906) 495465.95
3761836.41 52.68529 (22120717)
495485.95 3761836.41 51.62638 (22120717) 495505.95
3761836.41 50.44499 (22120717)
495525.95 3761836.41 49.42877 (23011922) 495545.95
3761836.41 49.30372 (23011922)
495565.95 3761836.41 49.02946 (23011922) 495125.95
3761856.41 72.25215 (19120407)
495145.95 3761856.41 70.96838 (22011017) 495165.95
3761856.41 70.12071 (22022518)
495185.95 3761856.41 68.81272 (23021318) 495205.95
3761856.41 67.36577 (23021318)
495225.95 3761856.41 66.18049 (21020818) 495385.95
3761856.41 58.01306 (21021918)
495405.95 3761856.41 56.65321 (21021918) 495425.95
3761856.41 55.20408 (18021419)
495445.95 3761856.41 54.28799 (21010906) 495465.95
3761856.41 53.59198 (21010906)
495485.95 3761856.41 52.69455 (21010906) 495505.95
3761856.41 51.63937 (21010906)
495525.95 3761856.41 50.57376 (22120717) 495545.95
3761856.41 49.88794 (22120717)
495565.95 3761856.41 49.03354 (22120717) 495125.95
3761876.41 71.66848 (19120407)
495145.95 3761876.41 71.06540 (19120407) 495165.95
3761876.41 69.55785 (19120407)
495185.95 3761876.41 67.48206 (22011017) 495205.95
3761876.41 66.82269 (22022518)
495225.95 3761876.41 66.03287 (22022518) 495385.95
3761876.41 56.72311 (19020618)
495405.95 3761876.41 55.90230 (21021918) 495425.95
3761876.41 55.30833 (21021918)
495445.95 3761876.41 54.49306 (21021918) 495465.95
3761876.41 53.66918 (18021419)
495485.95 3761876.41 52.65122 (18021419) 495505.95
3761876.41 51.46757 (18021419)
495525.95 3761876.41 50.81902 (21010906) 495545.95
3761876.41 50.26875 (21010906)
495565.95 3761876.41 49.53673 (21010906) 495125.95
3761896.41 71.91878 (23123018)
495145.95 3761896.41 70.49213 (23123018) 495165.95
3761896.41 68.17048 (19120407)
495185.95 3761896.41 67.59316 (19120407) 495205.95
3761896.41 66.53457 (19120407)
495225.95 3761896.41 64.82635 (19120407) 495385.95
3761896.41 56.73348 (22022020)
495405.95 3761896.41 55.45453 (22022020) 495425.95

3761896.41 54.02686 (22022020)
  495445.95 3761896.41 53.13209 (19020618) 495465.95
3761896.41 52.58146 (19020618)
  495485.95 3761896.41 52.08170 (18021419) 495505.95
3761896.41 51.70299 (18021419)
  495525.95 3761896.41 51.17791 (18021419) 495545.95
3761896.41 50.56036 (18021419)
  495565.95 3761896.41 49.74959 (18021419) 495585.95
3761896.41 48.55345 (18021419)
  495125.95 3761916.41 68.44342 (23123018) 495145.95
3761916.41 69.03314 (23123018)
  495165.95 3761916.41 68.72595 (23123018) 495185.95
3761916.41 67.27247 (23123018)
  495205.95 3761916.41 65.35125 (23123018) 495225.95
3761916.41 64.34777 (19120407)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: REFUELIN ***
INCLUDING SOURCE(S): VOL1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
495385.95	3761916.41	56.37916	(21020818)	495405.95	3761916.41	55.06555	(21020818)
495425.95	3761916.41	54.18974	(22022020)	495445.95	3761916.41	53.49232	(22022020)
495465.95	3761916.41	52.52320	(22022020)	495485.95	3761916.41	51.30039	(22022020)
495505.95	3761916.41	50.17457	(19020618)	495525.95	3761916.41	49.84011	(19020618)
495545.95	3761916.41	49.83496	(18021419)	495565.95	3761916.41	49.75529	(18021419)
495585.95	3761916.41	49.28886	(18021419)	495125.95	3761936.41	65.60534	(23011703)
495145.95	3761936.41	64.15563	(19011206)	495165.95			

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3761936.41       65.06735  (23123018)
        495185.95   3761936.41       65.51203  (23123018)                495205.95
3761936.41       65.43294  (23123018)
        495225.95   3761936.41       64.44783  (23123018)                495145.95
3761956.41       65.39111  (23011703)
        495165.95   3761956.41       62.92295  (23011703)                495185.95
3761956.41       60.89837  (22022220)
        495205.95   3761956.41       61.74494  (22022220)                495225.95
3761956.41       62.37179  (23123018)
        495145.95   3761976.41       65.34984  (23122217)                495165.95
3761976.41       64.28271  (23011703)
        495185.95   3761976.41       62.44205  (23011703)                495205.95
3761976.41       60.08592  (23011703)
        495225.95   3761976.41       58.50753  (22022220)                495145.95
3761996.41       64.42424  (23123020)
        495165.95   3761996.41       63.83944  (23010506)                495185.95
3761996.41       62.44163  (23122217)
        495205.95   3761996.41       61.58439  (23011703)                495225.95
3761996.41       60.02133  (23011703)
        495145.95   3762016.41       62.04792  (23123020)                495165.95
3762016.41       62.35431  (23123020)
        495185.95   3762016.41       61.98753  (23010506)                495205.95
3762016.41       61.31658  (23010506)
        495225.95   3762016.41       60.04626  (23011703)                495145.95
3762036.41       56.79632  (23123020)
        495165.95   3762036.41       58.79709  (23123020)                495185.95
3762036.41       59.78948  (23123020)
        495205.95   3762036.41       59.97436  (23010506)                495225.95
3762036.41       60.03419  (23010506)
        495145.95   3762056.41       57.48820  (19022107)                495165.95
3762056.41       55.12779  (19022107)
        495185.95   3762056.41       55.31046  (23123020)                495205.95
3762056.41       57.02653  (23123020)
        495225.95   3762056.41       57.77435  (23123020)                494031.10
3761757.45      107.60374  (23022717)
        494022.49   3761743.26      111.92976  (23022717)                494020.46
3761734.14      114.00356  (23022717)
        494013.36   3761724.00      112.42817  (23022717)                494002.72
3761712.34      106.69393  (23022717)
        493991.57   3761703.22       99.02505  (23022717)                493980.42
3761692.58       89.58802  (23022717)
        493969.78   3761686.49       81.69738  (23022717)                493957.61
3761681.43       73.69688  (23022717)
        493943.93   3761673.82       64.27887  (23022717)                493926.19
3761672.81       57.20392  (23022717)
        493913.51   3761671.29       52.27945  (23022717)                493899.83
3761669.77       50.61157  (19011516)
        493832.42   3761639.36       45.35065  (23022418)                493822.79
3761647.47       43.96023  (23022418)
        493811.13   3761658.11       41.88180  (23022418)                493809.61
```

3761669.26   40.18048 (23022418)
        493817.72   3761682.44   38.14036 (23020202)   493833.43
3761689.53   38.83948 (23012123)
        493853.71   3761695.11   44.85081 (23022717)   493871.45
3761693.08   48.69450 (23022717)
        493888.17   3761693.08   53.42743 (23022717)   493905.91
3761693.59   59.19019 (23022717)
        493920.61   3761694.60   64.66432 (23022717)   493939.36
3761698.15   73.18613 (23022717)
        493959.64   3761706.77   84.71077 (23022717)   493975.35
3761717.41   94.27638 (23022717)
        493983.46   3761726.03   98.81869 (23022717)   493991.06
3761738.19   101.52647 (23022717)
        494001.20   3761754.41   101.17649 (23022717)   493984.47
3761753.40   96.55767 (23022717)
        493980.42   3761746.81   96.55425 (23022717)   493970.79
3761734.64   93.92773 (23022717)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: REFUELIN ***
                                INCLUDING SOURCE(S):   VOL1   ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                      ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        493953.56   3761728.06   86.78540 (23022717)   493937.34
3761717.41   78.45581 (23022717)
        493921.12   3761715.38   71.88439 (23022717)   493906.93
3761711.33   65.73887 (23022717)
        493887.16   3761711.33   59.39474 (23022717)   493870.43
3761711.33   54.51043 (23022717)
        493857.76   3761710.82   50.93062 (23022717)   493843.06
3761709.81   46.94240 (23022717)
        493829.38   3761709.81   43.76900 (23022717)   493806.57
3761701.19   36.57856 (23022717)
        493799.47   3761683.96   36.71941 (23022418)   493797.45

3761663.18 40.11239 (23022418)
493779.71 3761668.25 38.09423 (23022418) 493775.14
3761687.51 34.64543 (23022418)
493782.75 3761700.18 34.18766 (23012123) 493793.39
3761716.90 38.33998 (23022717)
493809.10 3761730.59 44.86890 (23022717) 493821.27
3761732.11 47.85991 (23022717)
493843.57 3761730.59 52.71927 (23022717) 493874.99
3761733.63 61.69775 (23022717)
493883.61 3761733.12 64.05572 (23022717) 493904.90
3761734.64 70.80846 (23022717)
493928.72 3761736.17 78.82661 (23022717) 493941.39
3761745.80 83.70886 (23022717)
493954.06 3761758.47 86.78649 (23022717) 493931.76
3761757.45 80.59339 (23022717)
493915.54 3761754.92 76.04880 (23022717) 493903.38
3761754.41 72.63416 (23022717)
493888.68 3761754.41 68.64356 (23022717) 493872.97
3761753.91 64.48624 (23022717)
493851.68 3761754.41 59.26809 (23022717) 493835.46
3761751.88 55.07945 (23022717)
493818.73 3761751.37 51.26291 (23022717) 493742.20
3761651.01 36.03073 (23022418)
493742.20 3761665.21 35.15853 (23022418) 493742.20
3761680.41 33.39369 (23022418)
493746.25 3761695.11 31.61044 (23020202) 493750.31
3761708.80 31.14720 (23012123)
493754.87 3761721.47 32.82462 (23022717) 493757.91
3761732.62 35.77522 (23022717)
493772.10 3761750.36 41.83270 (23022717) 493760.44
3761749.34 39.58564 (23022717)
493749.29 3761748.84 37.61719 (23022717) 493730.54
3761748.84 34.65742 (23022717)
493705.70 3761747.32 30.81230 (23022717) 493712.80
3761770.63 35.56631 (23022717)
493739.66 3761767.59 39.19602 (23022717) 493757.40
3761769.11 42.31982 (23022717)
493780.21 3761771.14 46.57425 (23022717) 493801.50
3761770.12 50.42680 (23022717)
493830.90 3761773.17 56.59538 (23022717) 493850.66
3761773.67 60.79414 (23022717)
493872.46 3761773.67 65.54935 (23022717) 493893.75
3761776.71 70.14741 (23022717)
493908.45 3761775.70 73.43738 (23022717) 493926.19
3761779.75 76.66134 (23022717)
493937.84 3761778.74 79.23615 (23022717) 493952.54
3761780.26 81.73455 (23022717)
493967.75 3761779.75 84.67785 (23022717) 493975.35
3761783.81 84.34904 (23022717)
493989.54 3761780.26 88.01404 (23022717) 494000.19

3761781.78   88.67574 (23022717)
        494014.88   3761785.33   88.00845 (23022717)   494027.05
3761785.84   88.34655 (23022717)
        494049.35   3761786.34   88.14700 (23022717)   494066.08
3761786.34   87.23964 (23022717)
        494171.35   3761821.06   152.57982 (22123116)   494176.48
3761840.83   154.81081 (22123116)
        494171.35   3761886.24   122.10659 (22123116)   494831.53
3761814.80   95.62478 (18022619)
        494846.31   3761570.20   122.07067 (23102622)   494859.75
3761515.10   130.74558 (23120721)
        494839.59   3761451.93   124.01162 (18010317)   494863.63
3761459.20   119.72722 (18010317)
        494887.97   3761461.34   111.55097 (18010317)   494935.78
3761472.98   101.39149 (23092203)
        494961.89   3761422.37   99.39225 (18010317)   494996.53
3761368.08   85.23038 (18011021)
        494991.46   3761326.95   79.36688 (22122901)   495039.84
3761351.14   83.41577 (18011021)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                            *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: REFUELIN ***
                                INCLUDING SOURCE(S):   VOL1   ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        495133.92   3761336.35   48.65166 (23010216)   495229.34
3761325.60   43.67905 (18010317)
        495414.80   3761335.01   63.92890 (21122224)   495539.79
3761406.24   57.07181 (22101301)
        495545.17   3761697.88   51.70781 (19021524)   495576.08
3761783.89   51.16002 (21121817)
        495589.52   3761934.41   47.69883 (18021419)   495387.93
3761934.41   56.16136 (22022518)
        495359.70   3761828.24   59.14234 (21010906)   495237.40

3761820.18   66.93167 (21021918)
        495237.40   3762072.84   55.50033 (23123020)   495127.20
3762068.81   58.13209 (19022618)
        495124.51   3761818.83   74.18130 (22021918)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING ***
                                 INCLUDING SOURCE(S):   STCK1   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 - - -

3761356.41 46.33272 (18011021)
495185.95 3761356.41 45.43293 (18011021) 495205.95
3761356.41 44.21167 (18011021)
495225.95 3761356.41 43.48398 (18010317) 495245.95
3761356.41 43.46165 (18010317)
495265.95 3761356.41 43.50765 (18010317) 495285.95
3761356.41 50.34801 (21122224)
495305.95 3761356.41 53.45297 (21122224) 495325.95
3761356.41 53.72394 (21122224)
495345.95 3761356.41 52.68917 (21122224) 495365.95
3761356.41 52.40411 (21122224)
495385.95 3761356.41 51.58309 (21122224) 495405.95
3761356.41 50.42719 (21122224)
495425.95 3761356.41 49.13910 (21122224) 495445.95
3761356.41 47.92700 (21122224)
495005.95 3761376.41 74.20974 (18011021) 495025.95
3761376.41 73.80873 (18011021)
495045.95 3761376.41 72.32356 (18011021) 495065.95
3761376.41 69.68588 (18011021)
495085.95 3761376.41 63.23084 (18011021) 495105.95
3761376.41 56.14427 (18011021)
495125.95 3761376.41 52.57807 (18011021) 495145.95
3761376.41 50.83797 (18011021)
495165.95 3761376.41 49.22948 (18010317) 495185.95
3761376.41 47.79620 (18010317)
495205.95 3761376.41 46.65253 (18010317) 495225.95
3761376.41 46.54686 (18010317)
495245.95 3761376.41 48.04184 (21122224) 495265.95
3761376.41 49.27200 (21122224)
495285.95 3761376.41 53.83919 (21122224) 495305.95
3761376.41 54.52853 (21122224)
495325.95 3761376.41 53.52652 (21122224) 495345.95
3761376.41 52.04139 (21122224)
495365.95 3761376.41 50.84143 (21122224) 495385.95
3761376.41 49.88108 (18052904)
495405.95 3761376.41 49.34477 (18052904) 495425.95
3761376.41 48.77514 (18052904)
495445.95 3761376.41 48.26980 (18052904) 495465.95
3761376.41 47.36233 (18052904)
495485.95 3761376.41 46.10392 (18052904) 494985.95
3761396.41 79.09223 (18011021)
495005.95 3761396.41 78.06779 (18011021) 495025.95
3761396.41 75.64109 (18011021)
495045.95 3761396.41 73.00324 (18011021) 495065.95
3761396.41 69.88424 (18011021)
495085.95 3761396.41 64.89957 (18011021) 495105.95
3761396.41 58.46394 (18010317)
495125.95 3761396.41 55.80275 (18010317) 495145.95
3761396.41 54.36761 (18010317)
495165.95 3761396.41 52.87907 (21122224) 495185.95

3761396.41 51.04244 (21122224)
  495205.95 3761396.41 49.93700 (21122224) 495225.95
3761396.41 51.31109 (21122224)
  495245.95 3761396.41 53.38795 (21122224) 495265.95
3761396.41 53.43662 (21122224)
  495285.95 3761396.41 53.60488 (21122224) 495305.95
3761396.41 52.72878 (18052904)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING ***
INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
495325.95	3761396.41	52.30478	(18052904)	495345.95	3761396.41	51.73581	(18052904)
495365.95	3761396.41	50.82514	(18052904)	495385.95	3761396.41	49.85288	(18052904)
495405.95	3761396.41	48.83518	(18052904)	495425.95	3761396.41	47.81098	(18052904)
495445.95	3761396.41	46.80210	(18052904)	495465.95	3761396.41	45.49537	(18052904)
495485.95	3761396.41	44.30055	(22101301)	495505.95	3761396.41	43.63857	(22101301)
494965.95	3761416.41	84.79327	(18011021)	494985.95	3761416.41	81.32822	(18011021)
495005.95	3761416.41	77.63319	(18011021)	495025.95	3761416.41	74.83551	(21122224)
495045.95	3761416.41	73.94400	(21122224)	495065.95	3761416.41	72.87121	(21122224)
495085.95	3761416.41	70.18384	(21122224)	495105.95	3761416.41	64.73092	(21122224)
495125.95	3761416.41	61.14218	(21122224)	495145.95	3761416.41	58.74607	(21122224)
495165.95	3761416.41	56.34986	(21122224)	495185.95			

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3761416.41       54.02416  (21122224)
        495205.95   3761416.41       52.36936  (21122224)                495225.95
3761416.41       52.70247  (21122224)
        495245.95   3761416.41       53.76664  (18052904)                495265.95
3761416.41       53.45908  (18052904)
        495285.95   3761416.41       52.83597  (18052904)                495305.95
3761416.41       52.07037  (18052904)
        495325.95   3761416.41       51.54813  (18052904)                495345.95
3761416.41       51.09998  (18052904)
        495365.95   3761416.41       49.65809  (18052904)                495385.95
3761416.41       49.07945  (22101301)
        495405.95   3761416.41       48.67249  (22101301)                495425.95
3761416.41       48.28669  (22101301)
        495445.95   3761416.41       47.91249  (22101301)                495465.95
3761416.41       47.36446  (22101301)
        495485.95   3761416.41       46.70409  (22101301)                495505.95
3761416.41       45.90965  (22101301)
        495525.95   3761416.41       44.93829  (22101301)                494965.95
3761436.41       84.15172  (21122224)
        494985.95   3761436.41       82.81516  (21122224)                495005.95
3761436.41       80.41047  (21122224)
        495025.95   3761436.41       77.87957  (21122224)                495045.95
3761436.41       75.78626  (21122224)
        495065.95   3761436.41       73.91039  (21122224)                495085.95
3761436.41       71.60405  (21122224)
        495105.95   3761436.41       67.98244  (21122224)                495125.95
3761436.41       63.88053  (21122224)
        495145.95   3761436.41       59.86071  (21122224)                495165.95
3761436.41       56.38594  (21122224)
        495185.95   3761436.41       54.31994  (18052904)                495205.95
3761436.41       52.94937  (18052904)
        495225.95   3761436.41       53.29736  (18052904)                495245.95
3761436.41       53.83319  (18052904)
        495265.95   3761436.41       52.61794  (22101301)                495285.95
3761436.41       52.22247  (22101301)
        495305.95   3761436.41       52.13797  (22101301)                495325.95
3761436.41       52.74110  (22101301)
        495345.95   3761436.41       53.60207  (22101301)                495365.95
3761436.41       52.84822  (22101301)
        495385.95   3761436.41       51.90568  (22101301)                495405.95
3761436.41       50.99893  (22101301)
        495425.95   3761436.41       50.14567  (22101301)                495445.95
3761436.41       49.30423  (22101301)
        495465.95   3761436.41       48.39107  (22101301)                495485.95
3761436.41       47.45943  (22101301)
        495505.95   3761436.41       46.50621  (22101301)                495525.95
3761436.41       45.51873  (22101301)
        494845.95   3761456.41      109.78725  (18011021)                494945.95
3761456.41       88.44170  (21122224)
        494965.95   3761456.41       87.06695  (21122224)                494985.95
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3761456.41 84.21215 (21122224)
  495005.95 3761456.41 80.29561 (21122224) 495025.95
3761456.41 76.88540 (21122224)
  495045.95 3761456.41 73.95464 (21122224) 495065.95
3761456.41 71.17837 (18052904)
  495085.95 3761456.41 68.99527 (18052904) 495105.95
3761456.41 66.61972 (18052904)
  495125.95 3761456.41 63.70750 (18052904) 495145.95
3761456.41 60.44831 (18052904)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING ***
INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
495165.95	3761456.41	58.12572	(22101301)	495185.95	3761456.41	56.63632	(22101301)
495205.95	3761456.41	55.75559	(22101301)	495225.95	3761456.41	56.31181	(22101301)
495245.95	3761456.41	57.01987	(22101301)	495265.95	3761456.41	55.73790	(22101301)
495285.95	3761456.41	54.78736	(22101301)	495305.95	3761456.41	54.36485	(22101301)
495325.95	3761456.41	54.64075	(22101301)	495345.95	3761456.41	55.04834	(22101301)
495365.95	3761456.41	53.77786	(22101301)	495385.95	3761456.41	52.41160	(22101301)
495405.95	3761456.41	51.17100	(22101301)	495425.95	3761456.41	50.07211	(22101301)
495445.95	3761456.41	49.06345	(22101301)	495465.95	3761456.41	48.04844	(22101007)
495485.95	3761456.41	47.23327	(22101007)	495505.95	3761456.41	46.48883	(22101007)
495525.95	3761456.41	45.79032	(22101007)	494865.95			

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3761476.41      103.87012  (18010317)
        494885.95   3761476.41      100.42127  (21122224)              494905.95
3761476.41       96.18565  (21122224)
        494925.95   3761476.41       91.84782  (21122224)              494945.95
3761476.41       87.97084  (21122224)
        494965.95   3761476.41       84.17320  (21122224)              494985.95
3761476.41       80.14094  (21122224)
        495005.95   3761476.41       76.38128  (18052904)              495025.95
3761476.41       73.69128  (18052904)
        495045.95   3761476.41       72.22525  (22101301)              495065.95
3761476.41       71.46256  (22101301)
        495085.95   3761476.41       70.06772  (22101301)              495105.95
3761476.41       68.65418  (22101301)
        495125.95   3761476.41       66.91829  (22101301)              495145.95
3761476.41       64.76813  (22101301)
        495165.95   3761476.41       62.33642  (22101301)              495185.95
3761476.41       60.72278  (22101301)
        495205.95   3761476.41       59.47292  (22101301)              495225.95
3761476.41       58.96276  (22101301)
        495245.95   3761476.41       58.47995  (22101301)              495265.95
3761476.41       56.77483  (22101301)
        495285.95   3761476.41       55.44841  (22101301)              495305.95
3761476.41       54.57743  (22101301)
        495325.95   3761476.41       54.54887  (22101007)              495345.95
3761476.41       54.93039  (22101007)
        495365.95   3761476.41       53.71680  (22101007)              495385.95
3761476.41       52.52100  (22101007)
        495405.95   3761476.41       51.51876  (22101007)              495425.95
3761476.41       50.73657  (22101007)
        495445.95   3761476.41       50.12373  (22101007)              495465.95
3761476.41       48.95873  (22101007)
        495485.95   3761476.41       47.86956  (22101007)              495505.95
3761476.41       46.91437  (22101007)
        495525.95   3761476.41       46.06055  (22101007)              494865.95
3761496.41      102.47708  (23092203)
        494885.95   3761496.41       97.69716  (23092203)              494905.95
3761496.41       92.61386  (23092203)
        494925.95   3761496.41       89.12940  (23120721)              494945.95
3761496.41       86.47450  (23120721)
        494965.95   3761496.41       83.86087  (23120721)              494985.95
3761496.41       81.30464  (22101301)
        495005.95   3761496.41       78.43145  (22101301)              495025.95
3761496.41       76.68794  (22101301)
        495045.95   3761496.41       75.36423  (22101301)              495065.95
3761496.41       73.98078  (22101301)
        495085.95   3761496.41       72.15911  (22101301)              495105.95
3761496.41       69.85610  (22101301)
        495125.95   3761496.41       67.72412  (22101301)              495145.95
3761496.41       65.56782  (22101301)
        495165.95   3761496.41       63.28257  (22101301)              495185.95
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3761496.41   62.18349 (22101007)
        495205.95   3761496.41   61.17242 (22101007)   495225.95
3761496.41   60.18806 (22101007)
        495245.95   3761496.41   59.09971 (22101007)   495265.95
3761496.41   57.65272 (22101007)
        495285.95   3761496.41   56.58264 (22101007)   495305.95
3761496.41   55.78652 (22101007)
        495325.95   3761496.41   55.33245 (22101007)   495345.95
3761496.41   54.92482 (22101007)
        495365.95   3761496.41   53.39429 (22101007)   495385.95
3761496.41   52.03867 (22101007)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING ***
                                 INCLUDING SOURCE(S):   STCK1   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        495405.95   3761496.41   50.91719 (22101007)   495425.95
3761496.41   50.04238 (22101007)
        495445.95   3761496.41   49.34750 (22101007)   495465.95
3761496.41   47.99337 (22101007)
        495485.95   3761496.41   46.72612 (22101007)   495505.95
3761496.41   45.61195 (22101007)
        495525.95   3761496.41   44.62604 (22101007)   494865.95
3761516.41   107.96701 (23120721)
        494885.95   3761516.41   103.63717 (23120721)   494905.95
3761516.41   98.91186 (23120721)
        494925.95   3761516.41   94.89078 (23120721)   494945.95
3761516.41   91.16927 (23120721)
        494965.95   3761516.41   87.57756 (23120721)   494985.95
3761516.41   84.07565 (23120721)
        495005.95   3761516.41   80.29810 (23120721)   495025.95
3761516.41   77.16397 (23120721)
        495045.95   3761516.41   74.82791 (22101007)   495065.95

```
3761516.41       73.79599  (22101007)
        495085.95   3761516.41       72.16468  (22101007)                 495105.95
3761516.41       69.96794  (22101007)
        495125.95   3761516.41       67.95833  (22101007)                 495145.95
3761516.41       66.02182  (22101007)
        495165.95   3761516.41       64.03153  (22101007)                 495185.95
3761516.41       62.49163  (22101007)
        495205.95   3761516.41       61.03181  (22101007)                 495225.95
3761516.41       59.64084  (22101007)
        495245.95   3761516.41       58.26516  (22101007)                 495265.95
3761516.41       56.91819  (21070905)
        495285.95   3761516.41       56.00347  (21070905)                 495305.95
3761516.41       55.21826  (21070905)
        495325.95   3761516.41       54.53388  (21070905)                 495345.95
3761516.41       53.85193  (21070905)
        495365.95   3761516.41       52.71076  (21070905)                 495385.95
3761516.41       51.67259  (21070905)
        495405.95   3761516.41       50.79783  (21070905)                 495425.95
3761516.41       50.09638  (21070905)
        495445.95   3761516.41       49.50410  (21070905)                 495465.95
3761516.41       48.42090  (21070905)
        495485.95   3761516.41       47.39194  (21070905)                 495505.95
3761516.41       46.48005  (21070905)
        495525.95   3761516.41       45.67754  (21070905)                 494865.95
3761536.41      110.24876  (23120721)
        494885.95   3761536.41      104.67841  (23120721)                 494905.95
3761536.41       98.83119  (23120721)
        494925.95   3761536.41       93.98211  (23120721)                 494945.95
3761536.41       89.57528  (23120721)
        494965.95   3761536.41       85.72916  (18040602)                 494985.95
3761536.41       83.15030  (18040602)
        495005.95   3761536.41       79.70005  (18040602)                 495025.95
3761536.41       77.45263  (18040602)
        495045.95   3761536.41       75.95455  (21070905)                 495065.95
3761536.41       74.89814  (21070905)
        495085.95   3761536.41       73.15589  (21070905)                 495105.95
3761536.41       71.14063  (21070905)
        495125.95   3761536.41       69.34111  (21070905)                 495145.95
3761536.41       67.63160  (21070905)
        495165.95   3761536.41       65.88233  (21070905)                 495185.95
3761536.41       64.30785  (21070905)
        495205.95   3761536.41       62.88317  (21070905)                 495225.95
3761536.41       61.54328  (21070905)
        495245.95   3761536.41       60.23905  (21070905)                 495265.95
3761536.41       58.94658  (21070905)
        495285.95   3761536.41       57.80091  (21070905)                 495305.95
3761536.41       56.73330  (21070905)
        495325.95   3761536.41       55.71012  (21070905)                 495345.95
3761536.41       54.68356  (21070905)
        495365.95   3761536.41       53.50068  (21070905)                 495385.95
```

3761536.41   52.37984 (21070905)
        495405.95   3761536.41   51.38792 (21070905)   495425.95
3761536.41   50.53409 (21070905)
        495445.95   3761536.41   49.78647 (21070905)   495465.95
3761536.41   48.64642 (21070905)
        495485.95   3761536.41   47.53385 (21070905)   495505.95
3761536.41   46.52889 (21070905)
        495525.95   3761536.41   45.62991 (21070905)   494865.95
3761556.41   108.26584 (23102622)
        494885.95   3761556.41   104.33226 (23102622)   494905.95
3761556.41   99.21554 (23102622)
        494925.95   3761556.41   95.60096 (23102622)   494945.95
3761556.41   92.57362 (23102622)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING ***
                                 INCLUDING SOURCE(S):   STCK1   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        494965.95   3761556.41   89.60449 (23102622)   494985.95
3761556.41   86.47579 (23102622)
        495005.95   3761556.41   82.86731 (23102622)   495025.95
3761556.41   80.30130 (23102622)
        495045.95   3761556.41   78.32562 (23102622)   495065.95
3761556.41   76.41398 (23102622)
        495085.95   3761556.41   73.97694 (23102622)   495105.95
3761556.41   71.89541 (21070905)
        495125.95   3761556.41   70.06247 (21070905)   495145.95
3761556.41   68.27234 (21070905)
        495165.95   3761556.41   66.38650 (21070905)   495185.95
3761556.41   64.63158 (21070905)
        495205.95   3761556.41   62.97826 (21070905)   495225.95
3761556.41   61.41579 (21070905)
        495245.95   3761556.41   59.90043 (21070905)   495265.95

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3761556.41       58.42154  (21070905)
        495285.95   3761556.41       57.05873  (21070905)                495305.95
3761556.41       55.75891  (21070905)
        495325.95   3761556.41       54.52352  (21070905)                495345.95
3761556.41       53.33714  (21070905)
        495365.95   3761556.41       52.19170  (21070905)                495385.95
3761556.41       51.03976  (21070905)
        495405.95   3761556.41       49.95186  (21070905)                495425.95
3761556.41       48.95530  (21070905)
        495445.95   3761556.41       48.04341  (21070905)                495465.95
3761556.41       46.96503  (21070905)
        495485.95   3761556.41       45.87441  (21070905)                495505.95
3761556.41       44.84951  (21070905)
        495525.95   3761556.41       43.90751  (21070905)                494845.95
3761576.41      113.32069  (23102622)
        494865.95   3761576.41      108.92200  (23102622)                494885.95
3761576.41      104.60550  (23102622)
        494905.95   3761576.41       99.36665  (23102622)                494925.95
3761576.41       95.49653  (23102622)
        494945.95   3761576.41       92.29526  (23102622)                494965.95
3761576.41       89.17190  (23102622)
        494985.95   3761576.41       85.82927  (23102622)                495005.95
3761576.41       82.39793  (23102622)
        495025.95   3761576.41       79.75449  (23102622)                495045.95
3761576.41       77.54494  (23102622)
        495065.95   3761576.41       75.37047  (23102622)                495085.95
3761576.41       72.71458  (23102622)
        495105.95   3761576.41       70.42971  (23102622)                495125.95
3761576.41       68.40936  (23102622)
        495145.95   3761576.41       66.47908  (23102622)                495165.95
3761576.41       64.59094  (23102622)
        495185.95   3761576.41       62.79123  (23102622)                495205.95
3761576.41       61.07291  (23102622)
        495225.95   3761576.41       59.41839  (23102622)                495245.95
3761576.41       57.83130  (23102622)
        495265.95   3761576.41       56.28684  (23102622)                495285.95
3761576.41       54.80842  (23102622)
        495305.95   3761576.41       53.37556  (23102622)                495325.95
3761576.41       52.00508  (23102622)
        495345.95   3761576.41       50.69865  (23102622)                495365.95
3761576.41       49.45638  (23102622)
        495385.95   3761576.41       48.24983  (23102622)                495405.95
3761576.41       47.08424  (23102622)
        495425.95   3761576.41       45.96674  (23102622)                495445.95
3761576.41       45.24759  (19022622)
        495465.95   3761576.41       44.42932  (19022622)                495485.95
3761576.41       43.57358  (19022622)
        495505.95   3761576.41       42.79310  (19022622)                495525.95
3761576.41       42.09684  (19022622)
        494845.95   3761596.41      105.47237  (23102622)                494865.95
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3761596.41   101.22149 (23102622)
        494885.95   3761596.41   97.23221 (23102622)   494905.95
3761596.41   92.51581 (23102622)
        494925.95   3761596.41   88.86596 (23102622)   494945.95
3761596.41   85.87183 (23102622)
        494965.95   3761596.41   82.97804 (23102622)   494985.95
3761596.41   79.85111 (23102622)
        495005.95   3761596.41   76.90677 (23102622)   495025.95
3761596.41   74.45381 (23102622)
        495045.95   3761596.41   72.28338 (23102622)   495065.95
3761596.41   70.10858 (23102622)
        495085.95   3761596.41   67.61241 (23102622)   495105.95
3761596.41   65.51049 (23102622)
        495125.95   3761596.41   63.61570 (23102622)   495145.95
3761596.41   61.83064 (23102622)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING ***
                                INCLUDING SOURCE(S):   STCK1   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        495165.95   3761596.41   60.09586 (23102622)   495185.95
3761596.41   58.42581 (23102622)
        495205.95   3761596.41   56.81420 (23102622)   495225.95
3761596.41   55.43517 (19022622)
        495245.95   3761596.41   54.33375 (19022622)   495265.95
3761596.41   53.23051 (19022622)
        495285.95   3761596.41   52.11427 (19022622)   495305.95
3761596.41   50.97684 (19022622)
        495325.95   3761596.41   49.87368 (19022622)   495345.95
3761596.41   48.82572 (19022622)
        495365.95   3761596.41   47.86132 (19022622)   495385.95
3761596.41   46.93639 (19022622)
        495405.95   3761596.41   46.00246 (19022622)   495425.95

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3761596.41       45.08273  (19022622)
        495445.95   3761596.41       44.24171  (19022622)                495465.95
3761596.41       43.44373  (19022622)
        495485.95   3761596.41       42.64364  (19022622)                495505.95
3761596.41       41.89903  (19022622)
        495525.95   3761596.41       41.21474  (19022622)                494845.95
3761616.41       96.74193  (22120520)
        494865.95   3761616.41       93.45206  (22120520)                494885.95
3761616.41       90.21772  (22120520)
        494905.95   3761616.41       85.93252  (22120520)                494925.95
3761616.41       82.67871  (22120520)
        494945.95   3761616.41       80.33242  (22120520)                494965.95
3761616.41       78.02506  (22120520)
        494985.95   3761616.41       75.24549  (22120520)                495005.95
3761616.41       72.75442  (22120520)
        495025.95   3761616.41       70.71068  (22120520)                495045.95
3761616.41       68.83462  (22120520)
        495065.95   3761616.41       66.88242  (22120520)                495085.95
3761616.41       64.59909  (19120820)
        495105.95   3761616.41       62.84482  (19120820)                495125.95
3761616.41       61.30628  (19120820)
        495145.95   3761616.41       59.87774  (19120820)                495165.95
3761616.41       58.49600  (19120820)
        495185.95   3761616.41       57.10956  (19120820)                495205.95
3761616.41       55.77566  (19120820)
        495225.95   3761616.41       54.47468  (19120820)                495245.95
3761616.41       53.22260  (19120820)
        495265.95   3761616.41       52.02234  (19120820)                495285.95
3761616.41       50.81645  (19120820)
        495305.95   3761616.41       49.64151  (19120820)                495325.95
3761616.41       48.49114  (19120820)
        495345.95   3761616.41       47.37660  (19120820)                495365.95
3761616.41       46.31273  (19120820)
        495385.95   3761616.41       45.32696  (19120820)                495405.95
3761616.41       44.35516  (19120820)
        495425.95   3761616.41       43.38440  (19120820)                495445.95
3761616.41       42.39848  (19120820)
        495465.95   3761616.41       41.49970  (19120820)                495485.95
3761616.41       40.63348  (19120820)
        495505.95   3761616.41       39.82416  (19021819)                495525.95
3761616.41       39.24744  (23091001)
        494845.95   3761636.41       97.08520  (18020918)                494865.95
3761636.41       93.64662  (22122923)
        494885.95   3761636.41       90.14176  (22122923)                494905.95
3761636.41       85.78999  (22122923)
        494925.95   3761636.41       82.43572  (22122923)                494945.95
3761636.41       79.78194  (22122923)
        494965.95   3761636.41       77.10170  (22122923)                494985.95
3761636.41       74.08533  (19122417)
        495005.95   3761636.41       71.77019  (19122417)                495025.95
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3761636.41 69.78007 (19122417)
  495045.95 3761636.41 67.99319 (19122417) 495065.95
3761636.41 66.15557 (19122417)
  495085.95 3761636.41 63.99821 (22120520) 495105.95
3761636.41 62.30250 (22120520)
  495125.95 3761636.41 60.86503 (22120520) 495145.95
3761636.41 59.50543 (22120520)
  495165.95 3761636.41 58.09697 (22120520) 495185.95
3761636.41 56.70677 (22120520)
  495205.95 3761636.41 55.33301 (22120520) 495225.95
3761636.41 53.99572 (22120520)
  495245.95 3761636.41 52.71402 (22120520) 495265.95
3761636.41 51.47154 (22120520)
  495285.95 3761636.41 50.25719 (22120520) 495305.95
3761636.41 49.06217 (22120520)
  495325.95 3761636.41 47.88902 (22120520) 495345.95
3761636.41 46.75214 (22120520)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING ***
INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
495365.95	3761636.41	45.72180	(19120820)	495385.95	3761636.41	44.80025	(19120820)
495405.95	3761636.41	43.93526	(19120820)	495425.95	3761636.41	43.09541	(22120123)
495445.95	3761636.41	42.27852	(22120123)	495465.95	3761636.41	41.41015	(22120123)
495485.95	3761636.41	40.62947	(22120123)	495505.95	3761636.41	39.94395	(22120123)
495525.95	3761636.41	39.30971	(22120123)	494845.95	3761656.41	94.09753	(19122419)
494865.95	3761656.41	89.92038	(23020619)	494885.95			

3761656.41 87.41710 (23020619)
494905.95 3761656.41 83.78649 (23020619) 494925.95
3761656.41 81.36533 (23020619)
494945.95 3761656.41 79.43785 (23020619) 494965.95
3761656.41 77.24785 (23020619)
494985.95 3761656.41 74.38438 (23020619) 495005.95
3761656.41 71.98784 (23020619)
495025.95 3761656.41 69.80661 (23020619) 495045.95
3761656.41 67.84348 (23020619)
495065.95 3761656.41 65.83756 (23020619) 495085.95
3761656.41 63.58445 (23120117)
495105.95 3761656.41 62.08999 (23120117) 495125.95
3761656.41 60.91948 (23120117)
495145.95 3761656.41 59.78187 (23120117) 495165.95
3761656.41 58.48689 (23120117)
495185.95 3761656.41 57.18202 (23120117) 495205.95
3761656.41 55.85619 (23120117)
495225.95 3761656.41 54.54957 (23120117) 495245.95
3761656.41 53.28185 (23120117)
495265.95 3761656.41 52.04298 (23120117) 495285.95
3761656.41 50.85383 (23120117)
495305.95 3761656.41 49.66084 (23120117) 495325.95
3761656.41 48.47637 (23120117)
495345.95 3761656.41 47.41466 (22120817) 495365.95
3761656.41 46.38026 (22120817)
495385.95 3761656.41 45.42155 (22120817) 495405.95
3761656.41 44.59435 (22120817)
495425.95 3761656.41 43.82193 (22120817) 495445.95
3761656.41 43.01286 (22120817)
495465.95 3761656.41 42.04375 (22120817) 495485.95
3761656.41 41.14491 (22120817)
495505.95 3761656.41 40.36813 (22120123) 495525.95
3761656.41 39.76782 (22120123)
494845.95 3761676.41 93.83606 (19021522) 494865.95
3761676.41 90.05154 (19022819)
494885.95 3761676.41 86.45110 (19122419) 494905.95
3761676.41 82.49302 (19122419)
494925.95 3761676.41 79.43630 (19122419) 494945.95
3761676.41 76.98667 (23020619)
494965.95 3761676.41 75.45966 (23020619) 494985.95
3761676.41 73.29156 (23020619)
495005.95 3761676.41 71.48907 (23020619) 495025.95
3761676.41 69.92358 (23020619)
495045.95 3761676.41 68.40246 (23020619) 495065.95
3761676.41 66.75501 (23020619)
495085.95 3761676.41 64.65285 (23020619) 495105.95
3761676.41 62.94219 (23020619)
495125.95 3761676.41 61.46758 (23020619) 495145.95
3761676.41 60.01289 (23020619)
495165.95 3761676.41 58.46224 (23020619) 495185.95

3761676.41 56.87976 (23020619)
495205.95 3761676.41 55.30075 (23020619) 495225.95
3761676.41 53.73339 (23020619)
495245.95 3761676.41 52.47024 (23120117) 495265.95
3761676.41 51.45238 (23120117)
495285.95 3761676.41 50.51019 (23120117) 495305.95
3761676.41 49.56089 (23120117)
495325.95 3761676.41 48.60660 (23120117) 495345.95
3761676.41 47.64700 (23120117)
495365.95 3761676.41 46.60671 (23120117) 495385.95
3761676.41 45.61795 (23120117)
495405.95 3761676.41 44.70435 (23120117) 495425.95
3761676.41 43.87252 (23120117)
495445.95 3761676.41 43.23068 (22120817) 495465.95
3761676.41 42.42201 (22120817)
495485.95 3761676.41 41.61249 (22120817) 495505.95
3761676.41 40.84534 (22120817)
495525.95 3761676.41 40.12011 (22120817) 494845.95
3761696.41 93.83078 (18121117)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING ***
INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
494865.95	3761696.41	90.20568	(19021522)	494885.95	3761696.41	86.93716	(19021522)
494905.95	3761696.41	82.95501	(19021522)	494925.95	3761696.41	79.81938	(19021522)
494945.95	3761696.41	76.80324	(19021522)	494965.95	3761696.41	74.54254	(22123004)
494985.95	3761696.41	72.04085	(22123004)	495005.95	3761696.41	69.85682	(22123004)
495025.95	3761696.41	68.03884	(23123019)	495045.95			

3761696.41 66.64846 (23121820)
495065.95 3761696.41 65.39653 (23121820) 495085.95
3761696.41 63.66843 (23121820)
495105.95 3761696.41 62.32753 (23121820) 495125.95
3761696.41 61.04279 (23121820)
495145.95 3761696.41 59.73568 (23121820) 495165.95
3761696.41 58.35239 (23121820)
495185.95 3761696.41 56.96091 (23020619) 495205.95
3761696.41 55.73856 (23020619)
495225.95 3761696.41 54.53581 (23020619) 495245.95
3761696.41 53.29514 (23020619)
495265.95 3761696.41 51.97189 (23020619) 495285.95
3761696.41 50.74875 (23020619)
495305.95 3761696.41 49.57711 (23020619) 495325.95
3761696.41 48.39985 (23020619)
495345.95 3761696.41 47.20017 (23020619) 495365.95
3761696.41 46.05491 (19021524)
495385.95 3761696.41 45.17600 (19021524) 495405.95
3761696.41 44.31816 (19021524)
495425.95 3761696.41 43.52655 (19021524) 495445.95
3761696.41 42.84842 (19021524)
495465.95 3761696.41 42.09946 (19021524) 495485.95
3761696.41 41.25366 (19021524)
495505.95 3761696.41 40.39518 (19021524) 495525.95
3761696.41 39.57185 (23120117)
494845.95 3761716.41 95.52753 (22021918) 494865.95
3761716.41 91.32200 (22021918)
494885.95 3761716.41 86.56717 (21021918) 494905.95
3761716.41 83.13446 (21021918)
494925.95 3761716.41 80.50064 (21021918) 494945.95
3761716.41 77.89030 (21021918)
494965.95 3761716.41 74.88429 (21021918) 494985.95
3761716.41 72.16444 (19021522)
495005.95 3761716.41 69.67481 (22011802) 495025.95
3761716.41 68.13106 (22123004)
495045.95 3761716.41 66.76424 (22123004) 495065.95
3761716.41 65.09802 (23123019)
495085.95 3761716.41 63.24409 (23123019) 495105.95
3761716.41 61.68954 (23123019)
495125.95 3761716.41 60.04783 (23123019) 495145.95
3761716.41 58.68364 (23121820)
495165.95 3761716.41 57.68612 (23121820) 495185.95
3761716.41 56.56745 (23121820)
495205.95 3761716.41 55.63949 (23121820) 495225.95
3761716.41 54.75477 (23121820)
495245.95 3761716.41 53.74222 (23121820) 495265.95
3761716.41 52.40731 (23121820)
495285.95 3761716.41 51.21363 (23121820) 495305.95
3761716.41 50.14944 (23121820)
495325.95 3761716.41 49.06595 (23121820) 495345.95

3761716.41   47.91540 (23121820)
        495365.95   3761716.41   46.83381 (23121820)   495385.95
3761716.41   45.67750 (23121820)
        495405.95   3761716.41   44.60573 (23020619)   495425.95
3761716.41   43.61927 (23020619)
        495445.95   3761716.41   42.69689 (23020619)   495465.95
3761716.41   41.82598 (23020619)
        495485.95   3761716.41   40.84672 (23020619)   495505.95
3761716.41   40.08453 (19021524)
        495525.95   3761716.41   39.38557 (19021524)   495545.95
3761716.41   38.69729 (19021524)
        494845.95   3761736.41   92.65068 (22021918)   494865.95
3761736.41   90.33186 (22021918)
        494885.95   3761736.41   87.13713 (22021918)   494905.95
3761736.41   83.45402 (22021918)
        494925.95   3761736.41   80.26207 (22021918)   494945.95
3761736.41   77.86017 (21021918)
        494965.95   3761736.41   76.06761 (21021918)   494985.95
3761736.41   73.45064 (21021918)
        495005.95   3761736.41   71.13613 (21021918)   495025.95
3761736.41   68.91185 (21021918)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING ***
                                  INCLUDING SOURCE(S):   STCK1   ,

                                           *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        495045.95   3761736.41   66.38355 (21021918)   495065.95
3761736.41   64.33352 (22011802)
        495085.95   3761736.41   62.24107 (22011802)   495105.95
3761736.41   60.97509 (22123004)
        495125.95   3761736.41   59.88633 (23123019)   495145.95
3761736.41   58.76610 (23123019)
        495165.95   3761736.41   57.54352 (23123019)   495185.95

```
3761736.41       56.10547  (23123019)
        495205.95   3761736.41       54.87577  (23123019)                495225.95
3761736.41       53.72762  (23123019)
        495245.95   3761736.41       52.88193  (21121817)                495265.95
3761736.41       51.67768  (21121817)
        495285.95   3761736.41       50.71008  (23121820)                495305.95
3761736.41       49.88206  (23121820)
        495325.95   3761736.41       49.05109  (23121820)                495345.95
3761736.41       48.12731  (23121820)
        495365.95   3761736.41       47.32278  (23121820)                495385.95
3761736.41       46.50100  (23121820)
        495405.95   3761736.41       45.56547  (23121820)                495425.95
3761736.41       44.56759  (23121820)
        495445.95   3761736.41       43.60834  (23121820)                495465.95
3761736.41       42.84972  (23121820)
        495485.95   3761736.41       41.90970  (23121820)                495505.95
3761736.41       40.89681  (23121820)
        495525.95   3761736.41       39.87406  (23121820)                495545.95
3761736.41       38.87657  (23121820)
        494845.95   3761756.41       89.68409  (18021420)                494865.95
3761756.41       86.97287  (18021420)
        494885.95   3761756.41       83.46799  (18021420)                494905.95
3761756.41       81.01748  (22021918)
        494925.95   3761756.41       79.38991  (22021918)                494945.95
3761756.41       77.50325  (22021918)
        494965.95   3761756.41       75.13125  (22021918)                494985.95
3761756.41       72.17729  (22021918)
        495005.95   3761756.41       70.53308  (21021918)                495025.95
3761756.41       69.20988  (21021918)
        495045.95   3761756.41       67.54260  (21021918)                495065.95
3761756.41       65.52625  (21021918)
        495085.95   3761756.41       63.30557  (21021918)                495105.95
3761756.41       61.19765  (21021918)
        495125.95   3761756.41       59.58097  (21010906)                495145.95
3761756.41       57.93379  (21010906)
        495165.95   3761756.41       56.15772  (21010906)                495185.95
3761756.41       55.05050  (23123019)
        495205.95   3761756.41       54.19682  (23123019)                495225.95
3761756.41       53.42810  (23123019)
        495245.95   3761756.41       52.57253  (23123019)                495265.95
3761756.41       51.30278  (23123019)
        495285.95   3761756.41       50.11680  (23123019)                495305.95
3761756.41       49.00665  (23123019)
        495325.95   3761756.41       47.85958  (23123019)                495345.95
3761756.41       47.11490  (21121817)
        495365.95   3761756.41       46.50275  (21121817)                495385.95
3761756.41       45.86369  (21121817)
        495405.95   3761756.41       45.10453  (21121817)                495425.95
3761756.41       44.27643  (23121820)
        495445.95   3761756.41       43.55580  (23121820)                495465.95
```

3761756.41 42.94704 (23121820)
  495485.95 3761756.41 42.22220 (23121820) 495505.95
3761756.41 41.43512 (23121820)
  495525.95 3761756.41 40.62369 (23121820) 495545.95
3761756.41 39.82959 (23121820)
  495565.95 3761756.41 39.01360 (23121820) 494845.95
3761776.41 86.99123 (23123018)
  494865.95 3761776.41 84.79488 (23123018) 494885.95
3761776.41 81.79405 (23123018)
  494905.95 3761776.41 79.13371 (18021420) 494925.95
3761776.41 76.88069 (18021420)
  494945.95 3761776.41 74.29892 (23021318) 494965.95
3761776.41 73.13908 (22021918)
  494985.95 3761776.41 71.60994 (22021918) 495005.95
3761776.41 69.88185 (22021918)
  495025.95 3761776.41 67.86592 (22021918) 495045.95
3761776.41 65.66595 (21021918)
  495065.95 3761776.41 64.64054 (21021918) 495085.95
3761776.41 63.33407 (21021918)
  495105.95 3761776.41 62.02519 (21021918) 495125.95
3761776.41 60.56577 (21021918)
  495145.95 3761776.41 58.91917 (21021918) 495165.95
3761776.41 57.09363 (21021918)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING ***
INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
495185.95	3761776.41	55.49276	(21010906)	495205.95	3761776.41	53.93463	(21010906)
495225.95	3761776.41	52.44839	(21010906)	495245.95	3761776.41	50.95287	(21010906)
495265.95	3761776.41	49.89352	(23123019)	495285.95			

3761776.41 49.20230 (23123019)
495305.95 3761776.41 48.49577 (23123019) 495325.95
3761776.41 47.71852 (23123019)
495345.95 3761776.41 46.86204 (23123019) 495365.95
3761776.41 46.02131 (23123019)
495385.95 3761776.41 45.15104 (23123019) 495405.95
3761776.41 44.19164 (23123019)
495425.95 3761776.41 43.27283 (21121817) 495445.95
3761776.41 42.73752 (21121817)
495465.95 3761776.41 42.17432 (21121817) 495485.95
3761776.41 41.57735 (21121817)
495505.95 3761776.41 40.93968 (21121817) 495525.95
3761776.41 40.27715 (21121817)
495545.95 3761776.41 39.62493 (21121817) 495565.95
3761776.41 38.97223 (21121817)
494845.95 3761796.41 91.33606 (19011720) 494865.95
3761796.41 81.82531 (23123018)
494885.95 3761796.41 80.78464 (23123018) 494905.95
3761796.41 79.03915 (23123018)
494925.95 3761796.41 76.84529 (23123018) 494945.95
3761796.41 74.23674 (19120407)
494965.95 3761796.41 72.51783 (19120407) 494985.95
3761796.41 70.29554 (19120407)
495005.95 3761796.41 68.58044 (23021318) 495025.95
3761796.41 67.16229 (23021318)
495045.95 3761796.41 65.46137 (22021918) 495065.95
3761796.41 63.90442 (22021918)
495085.95 3761796.41 62.17042 (18021819) 495105.95
3761796.41 60.53857 (21021918)
495125.95 3761796.41 59.80914 (21021918) 495145.95
3761796.41 58.84945 (21021918)
495165.95 3761796.41 57.65167 (21021918) 495185.95
3761796.41 56.12544 (21021918)
495205.95 3761796.41 54.48721 (21021918) 495225.95
3761796.41 52.85896 (21021918)
495245.95 3761796.41 51.59381 (21010906) 495265.95
3761796.41 50.35665 (21010906)
495285.95 3761796.41 49.07342 (21010906) 495305.95
3761796.41 47.76140 (21010906)
495325.95 3761796.41 46.41614 (21010906) 495345.95
3761796.41 45.48317 (23123019)
495365.95 3761796.41 44.97699 (23123019) 495385.95
3761796.41 44.41259 (23123019)
495405.95 3761796.41 43.77349 (23123019) 495425.95
3761796.41 43.08162 (23123019)
495445.95 3761796.41 42.35454 (23123019) 495465.95
3761796.41 41.59218 (23123019)
495485.95 3761796.41 40.79854 (23123019) 495505.95
3761796.41 39.97738 (23123019)
495525.95 3761796.41 39.28349 (21121817) 495545.95

3761796.41   38.85497 (21121817)
        495565.95   3761796.41   38.43097 (21121817)   494965.95
3761816.41   72.28433 (23123018)
        494985.95   3761816.41   70.03189 (23123018)   495005.95
3761816.41   68.27007 (19120407)
        495025.95   3761816.41   66.47532 (19120407)   495045.95
3761816.41   64.32158 (19120407)
        495065.95   3761816.41   63.27084 (23021318)   495085.95
3761816.41   61.94131 (23021318)
        495105.95   3761816.41   60.38111 (23021318)   495125.95
3761816.41   59.02570 (18021819)
        495145.95   3761816.41   57.56000 (22022020)   495165.95
3761816.41   56.21189 (22022020)
        495185.95   3761816.41   55.09427 (21021918)   495205.95
3761816.41   54.12583 (21021918)
        495225.95   3761816.41   53.09763 (21021918)   495245.95
3761816.41   51.98587 (21021918)
        495265.95   3761816.41   50.71121 (21021918)   495285.95
3761816.41   49.34608 (21021918)
        495305.95   3761816.41   48.15293 (21010906)   495325.95
3761816.41   47.19292 (21010906)
        495345.95   3761816.41   46.17879 (21010906)   495365.95
3761816.41   45.08527 (21010906)
        495385.95   3761816.41   43.90872 (21010906)   495405.95
3761816.41   42.76195 (22120717)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING ***
                                 INCLUDING SOURCE(S):   STCK1   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        495425.95   3761816.41   41.75194 (22120717)   495445.95
3761816.41   41.24029 (23123019)
        495465.95   3761816.41   40.77202 (23123019)   495485.95

3761816.41 40.26343 (23123019)
495505.95 3761816.41 39.71691 (23123019) 495525.95
3761816.41 39.13452 (23123019)
495545.95 3761816.41 38.51604 (23123019) 495565.95
3761816.41 37.87606 (23123019)
495125.95 3761836.41 58.70530 (22022518) 495145.95
3761836.41 57.36885 (23021318)
495165.95 3761836.41 56.03748 (21020818) 495185.95
3761836.41 54.48866 (21020818)
495205.95 3761836.41 53.32148 (22022020) 495225.95
3761836.41 52.16876 (22022020)
495365.95 3761836.41 45.37323 (18021419) 495385.95
3761836.41 44.31468 (21010906)
495405.95 3761836.41 43.40715 (21010906) 495425.95
3761836.41 42.43507 (21010906)
495445.95 3761836.41 41.42436 (21010906) 495465.95
3761836.41 40.52222 (22120717)
495485.95 3761836.41 39.70364 (22120717) 495505.95
3761836.41 38.85206 (22120717)
495525.95 3761836.41 38.04556 (23011922) 495545.95
3761836.41 37.63852 (23123019)
495565.95 3761836.41 37.24032 (23123019) 495125.95
3761856.41 57.91952 (19120407)
495145.95 3761856.41 56.65560 (22022518) 495165.95
3761856.41 55.70326 (22022518)
495185.95 3761856.41 54.32336 (22022518) 495205.95
3761856.41 52.98730 (21020818)
495225.95 3761856.41 51.94276 (21020818) 495385.95
3761856.41 44.61051 (18021419)
495405.95 3761856.41 43.65728 (18021419) 495425.95
3761856.41 42.66275 (18021419)
495445.95 3761856.41 41.62715 (18021419) 495465.95
3761856.41 40.71414 (21010906)
495485.95 3761856.41 39.94653 (21010906) 495505.95
3761856.41 39.13103 (21010906)
495525.95 3761856.41 38.47985 (22120717) 495545.95
3761856.41 37.86578 (22120717)
495565.95 3761856.41 37.19151 (22120717) 495125.95
3761876.41 57.35492 (23123018)
495145.95 3761876.41 56.08857 (19120407) 495165.95
3761876.41 54.89179 (19120407)
495185.95 3761876.41 53.36583 (21020618) 495205.95
3761876.41 52.59439 (22022518)
495225.95 3761876.41 51.75070 (22022518) 495385.95
3761876.41 43.60349 (18021419)
495405.95 3761876.41 43.04536 (18021419) 495425.95
3761876.41 42.44424 (18021419)
495445.95 3761876.41 41.77627 (18021419) 495465.95
3761876.41 41.06815 (18021419)
495485.95 3761876.41 40.27607 (18021419) 495505.95

3761876.41 39.43431 (18021419)
  495525.95 3761876.41 38.56215 (18021419) 495545.95
3761876.41 37.75071 (21010906)
  495565.95 3761876.41 37.17909 (22120717) 495125.95
3761896.41 57.01541 (23123018)
  495145.95 3761896.41 55.92664 (23123018) 495165.95
3761896.41 54.45850 (23123018)
  495185.95 3761896.41 52.87648 (21020618) 495205.95
3761896.41 52.25775 (21020618)
  495225.95 3761896.41 51.36818 (21020618) 495385.95
3761896.41 43.47066 (22022020)
  495405.95 3761896.41 42.52102 (22022020) 495425.95
3761896.41 41.53844 (22022020)
  495445.95 3761896.41 40.69656 (18021419) 495465.95
3761896.41 40.33878 (18021419)
  495485.95 3761896.41 39.89421 (18021419) 495505.95
3761896.41 39.37990 (18021419)
  495525.95 3761896.41 38.82523 (18021419) 495545.95
3761896.41 38.25349 (18021419)
  495565.95 3761896.41 37.61080 (18021419) 495585.95
3761896.41 36.80879 (18021419)
  495125.95 3761916.41 54.62699 (23123018) 495145.95
3761916.41 54.44215 (23123018)
  495165.95 3761916.41 53.87510 (23123018) 495185.95
3761916.41 52.80427 (23123018)
  495205.95 3761916.41 51.57370 (23123018) 495225.95
3761916.41 50.39568 (21020618)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING ***
INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
495385.95	3761916.41	42.99716	(21020818)	495405.95			

3761916.41 42.06206 (21020818)
495425.95 3761916.41 41.37127 (22022020) 495445.95
3761916.41 40.71023 (22022020)
495465.95 3761916.41 39.95396 (22022020) 495485.95
3761916.41 39.10884 (22022020)
495505.95 3761916.41 38.32357 (18021419) 495525.95
3761916.41 38.11418 (18021419)
495545.95 3761916.41 37.84568 (18021419) 495565.95
3761916.41 37.49194 (18021419)
495585.95 3761916.41 36.97959 (18021419) 495125.95
3761936.41 54.01616 (23011703)
495145.95 3761936.41 52.21558 (23011703) 495165.95
3761936.41 51.52230 (23123018)
495185.95 3761936.41 51.29374 (23123018) 495205.95
3761936.41 50.87153 (23123018)
495225.95 3761936.41 50.06834 (23123018) 495145.95
3761956.41 52.61992 (23011703)
495165.95 3761956.41 51.29602 (23011703) 495185.95
3761956.41 49.42232 (23011703)
495205.95 3761956.41 48.83688 (22022220) 495225.95
3761956.41 48.50968 (22022220)
495145.95 3761976.41 52.36435 (23010506) 495165.95
3761976.41 51.11876 (23010506)
495185.95 3761976.41 49.86419 (23011703) 495205.95
3761976.41 48.63057 (23011703)
495225.95 3761976.41 47.02393 (23011703) 495145.95
3761996.41 51.09204 (23010506)
495165.95 3761996.41 50.70685 (23010506) 495185.95
3761996.41 49.72497 (23010506)
495205.95 3761996.41 48.50532 (23010506) 495225.95
3761996.41 47.53628 (23011703)
495145.95 3762016.41 48.52169 (23123020) 495165.95
3762016.41 48.88939 (23010506)
495185.95 3762016.41 48.77290 (23010506) 495205.95
3762016.41 48.34681 (23010506)
495225.95 3762016.41 47.48898 (23010506) 495145.95
3762036.41 46.26409 (19022107)
495165.95 3762036.41 46.06579 (23123020) 495185.95
3762036.41 46.56625 (23010506)
495205.95 3762036.41 46.90562 (23010506) 495225.95
3762036.41 46.79956 (23010506)
495145.95 3762056.41 46.20760 (19022107) 495165.95
3762056.41 45.16500 (19022107)
495185.95 3762056.41 43.71158 (19022107) 495205.95
3762056.41 44.30086 (23010506)
495225.95 3762056.41 44.89163 (23010506) 494031.10
3761757.45 82.11368 (23022717)
494022.49 3761743.26 81.52060 (23022717) 494020.46
3761734.14 81.44656 (23022717)
494013.36 3761724.00 79.00845 (23022717) 494002.72

3761712.34   74.37054 (23022717)
        493991.57   3761703.22   69.21099 (23022717)   493980.42
3761692.58   63.49716 (23022717)
        493969.78   3761686.49   58.83100 (23022717)   493957.61
3761681.43   54.12136 (23022717)
        493943.93   3761673.82   48.66053 (23022717)   493926.19
3761672.81   44.25232 (23022717)
        493913.51   3761671.29   41.20352 (23022717)   493899.83
3761669.77   38.19426 (23022717)
        493832.42   3761639.36   29.83858 (23022418)   493822.79
3761647.47   29.18979 (23022418)
        493811.13   3761658.11   28.27229 (23022418)   493809.61
3761669.26   27.85651 (23022418)
        493817.72   3761682.44   28.07359 (23022717)   493833.43
3761689.53   31.23154 (23022717)
        493853.71   3761695.11   35.11082 (23022717)   493871.45
3761693.08   37.67294 (23022717)
        493888.17   3761693.08   40.67915 (23022717)   493905.91
3761693.59   44.29029 (23022717)
        493920.61   3761694.60   47.68047 (23022717)   493939.36
3761698.15   52.85848 (23022717)
        493959.64   3761706.77   59.82912 (23022717)   493975.35
3761717.41   65.92448 (23022717)
        493983.46   3761726.03   69.18477 (23022717)   493991.06
3761738.19   71.91510 (23022717)
        494001.20   3761754.41   74.09637 (23022717)   493984.47
3761753.40   69.63690 (23022717)
        493980.42   3761746.81   68.78447 (23022717)   493970.79
3761734.64   65.94323 (23022717)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING ***
                                 INCLUDING SOURCE(S):   STCK1   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
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- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        493953.56   3761728.06       60.79695  (23022717)                493937.34
3761717.41       55.43589  (23022717)
        493921.12   3761715.38       51.26992  (23022717)                493906.93
3761711.33       47.52885  (23022717)
        493887.16   3761711.33       43.51818  (23022717)                493870.43
3761711.33       40.43494  (23022717)
        493857.76   3761710.82       38.19824  (23022717)                493843.06
3761709.81       35.72033  (23022717)
        493829.38   3761709.81       33.70394  (23022717)                493806.57
3761701.19       29.47679  (23022717)
        493799.47   3761683.96       26.57802  (23022418)                493797.45
3761663.18       27.27812  (23022418)
        493779.71   3761668.25       26.07650  (23022418)                493775.14
3761687.51       25.04786  (23022418)
        493782.75   3761700.18       26.58481  (23022717)                493793.39
3761716.90       29.91881  (23022717)
        493809.10   3761730.59       33.50202  (23022717)                493821.27
3761732.11       35.33259  (23022717)
        493843.57   3761730.59       38.46872  (23022717)                493874.99
3761733.63       44.08443  (23022717)
        493883.61   3761733.12       45.62075  (23022717)                493904.90
3761734.64       49.98213  (23022717)
        493928.72   3761736.17       55.32848  (23022717)                493941.39
3761745.80       58.84898  (23022717)
        493954.06   3761758.47       61.92546  (23022717)                493931.76
3761757.45       56.95851  (23022717)
        493915.54   3761754.92       53.50112  (23022717)                493903.38
3761754.41       51.05158  (23022717)
        493888.68   3761754.41       48.26354  (23022717)                493872.97
3761753.91       45.42846  (23022717)
        493851.68   3761754.41       41.93183  (23022717)                493835.46
3761751.88       39.25403  (23022717)
        493818.73   3761751.37       36.80964  (23022717)                493742.20
3761651.01       23.81340  (23022418)
        493742.20   3761665.21       23.65360  (23022418)                493742.20
3761680.41       23.21965  (23022418)
        493746.25   3761695.11       22.85693  (23022418)                493750.31
3761708.80       24.30319  (23022717)
        493754.87   3761721.47       26.16964  (23022717)                493757.91
3761732.62       27.64686  (23022717)
        493772.10   3761750.36       30.84980  (23022717)                493760.44
3761749.34       29.46632  (23022717)
        493749.29   3761748.84       28.24127  (23022717)                493730.54
3761748.84       26.37058  (23022717)
        493705.70   3761747.32       23.97775  (23022717)                493712.80
3761770.63       26.24958  (23022717)
        493739.66   3761767.59       28.63385  (23022717)                493757.40
3761769.11       30.57317  (23022717)
        493780.21   3761771.14       33.24491  (23022717)                493801.50
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3761770.12   35.76728 (23022717)
        493830.90   3761773.17   39.81983 (23022717)   493850.66
3761773.67   42.72985 (23022717)
        493872.46   3761773.67   46.15664 (23022717)   493893.75
3761776.71   49.73983 (23022717)
        493908.45   3761775.70   52.32540 (23022717)   493926.19
3761779.75   55.42894 (23022717)
        493937.84   3761778.74   57.66454 (23022717)   493952.54
3761780.26   60.38774 (23022717)
        493967.75   3761779.75   63.45749 (23022717)   493975.35
3761783.81   64.44076 (23022717)
        493989.54   3761780.26   67.84963 (23022717)   494000.19
3761781.78   69.77168 (23022717)
        494014.88   3761785.33   71.92022 (23022717)   494027.05
3761785.84   74.13560 (23022717)
        494049.35   3761786.34   78.10447 (23022717)   494066.08
3761786.34   80.96624 (23022717)
        494171.35   3761821.06   93.01440 (22123116)   494176.48
3761840.83   100.22452 (22123116)
        494171.35   3761886.24   91.39360 (22123116)   494831.53
3761814.80   142.16459 (19020521)
        494846.31   3761570.20   113.80305 (23102622)   494859.75
3761515.10   108.77509 (23120721)
        494839.59   3761451.93   110.97538 (18011021)   494863.63
3761459.20   104.88402 (18011021)
        494887.97   3761461.34   98.57649 (18010317)   494935.78
3761472.98   90.32887 (21122224)
        494961.89   3761422.37   85.37045 (18011021)   494996.53
3761368.08   70.58287 (22122901)
        494991.46   3761326.95   68.73966 (22122901)   495039.84
3761351.14   67.94062 (22122901)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING ***
                                   INCLUDING SOURCE(S):   STCK1   ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                          ** CONC OF VARIOUS IN MICROGRAMS/M**3   **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)

Y-COORD (M)   CONC   (YYMMDDHH)
 - - -

3761336.41 51.52531 (21122224)
495365.95 3761336.41 52.09267 (21122224) 495385.95
3761336.41 51.72884 (21122224)
495405.95 3761336.41 50.76777 (21122224) 495005.95
3761356.41 73.01028 (22122901)
495025.95 3761356.41 70.29127 (22122901) 495045.95
3761356.41 67.43692 (18011021)
495065.95 3761356.41 63.87985 (18011021) 495085.95
3761356.41 54.03205 (18011021)
495105.95 3761356.41 48.01782 (18011021) 495125.95
3761356.41 46.25297 (18011021)
495145.95 3761356.41 46.45191 (18011021) 495165.95
3761356.41 46.33272 (18011021)
495185.95 3761356.41 45.43294 (18011021) 495205.95
3761356.41 44.21168 (18011021)
495225.95 3761356.41 43.48398 (18010317) 495245.95
3761356.41 43.46165 (18010317)
495265.95 3761356.41 43.50765 (18010317) 495285.95
3761356.41 50.34806 (21122224)
495305.95 3761356.41 53.45306 (21122224) 495325.95
3761356.41 53.72404 (21122224)
495345.95 3761356.41 52.68926 (21122224) 495365.95
3761356.41 52.40421 (21122224)
495385.95 3761356.41 51.58319 (21122224) 495405.95
3761356.41 50.42729 (21122224)
495425.95 3761356.41 49.13920 (21122224) 495445.95
3761356.41 47.92710 (21122224)
495005.95 3761376.41 74.20980 (18011021) 495025.95
3761376.41 73.80879 (18011021)
495045.95 3761376.41 72.32363 (18011021) 495065.95
3761376.41 69.68595 (18011021)
495085.95 3761376.41 63.23088 (18011021) 495105.95
3761376.41 56.14429 (18011021)
495125.95 3761376.41 52.57809 (18011021) 495145.95
3761376.41 50.83799 (18011021)
495165.95 3761376.41 49.22948 (18010317) 495185.95
3761376.41 47.79620 (18010317)
495205.95 3761376.41 46.65253 (18010317) 495225.95
3761376.41 46.54686 (18010317)
495245.95 3761376.41 48.04186 (21122224) 495265.95
3761376.41 49.27204 (21122224)
495285.95 3761376.41 53.83926 (21122224) 495305.95
3761376.41 54.52862 (21122224)
495325.95 3761376.41 53.52661 (21122224) 495345.95
3761376.41 52.04148 (21122224)
495365.95 3761376.41 50.84152 (21122224) 495385.95
3761376.41 49.88119 (18052904)
495405.95 3761376.41 49.34488 (18052904) 495425.95
3761376.41 48.77525 (18052904)
495445.95 3761376.41 48.26991 (18052904) 495465.95

3761376.41 47.36245 (18052904)
  495485.95 3761376.41 46.10403 (18052904) 494985.95
3761396.41 79.09229 (18011021)
  495005.95 3761396.41 78.06786 (18011021) 495025.95
3761396.41 75.64115 (18011021)
  495045.95 3761396.41 73.00331 (18011021) 495065.95
3761396.41 69.88431 (18011021)
  495085.95 3761396.41 64.89962 (18011021) 495105.95
3761396.41 58.46394 (18010317)
  495125.95 3761396.41 55.80275 (18010317) 495145.95
3761396.41 54.36761 (18010317)
  495165.95 3761396.41 52.87908 (21122224) 495185.95
3761396.41 51.04245 (21122224)
  495205.95 3761396.41 49.93701 (21122224) 495225.95
3761396.41 51.31112 (21122224)
  495245.95 3761396.41 53.38801 (21122224) 495265.95
3761396.41 53.43669 (21122224)
  495285.95 3761396.41 53.60495 (21122224) 495305.95
3761396.41 52.72887 (18052904)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: BREATHIN ***
INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
495325.95	3761396.41	52.30488	(18052904)	495345.95	3761396.41	51.73591	(18052904)
495365.95	3761396.41	50.82524	(18052904)	495385.95	3761396.41	49.85299	(18052904)
495405.95	3761396.41	48.83528	(18052904)	495425.95	3761396.41	47.81108	(18052904)
495445.95	3761396.41	46.80220	(18052904)	495465.95	3761396.41	45.49547	(18052904)
495485.95	3761396.41	44.30100	(22101301)	495505.95			

3761396.41 43.63902 (22101301)
494965.95 3761416.41 84.79334 (18011021) 494985.95
3761416.41 81.32829 (18011021)
495005.95 3761416.41 77.63326 (18011021) 495025.95
3761416.41 74.83556 (21122224)
495045.95 3761416.41 73.94407 (21122224) 495065.95
3761416.41 72.87128 (21122224)
495085.95 3761416.41 70.18392 (21122224) 495105.95
3761416.41 64.73097 (21122224)
495125.95 3761416.41 61.14222 (21122224) 495145.95
3761416.41 58.74611 (21122224)
495165.95 3761416.41 56.34989 (21122224) 495185.95
3761416.41 54.02419 (21122224)
495205.95 3761416.41 52.36939 (21122224) 495225.95
3761416.41 52.70251 (21122224)
495245.95 3761416.41 53.76672 (18052904) 495265.95
3761416.41 53.45916 (18052904)
495285.95 3761416.41 52.83605 (18052904) 495305.95
3761416.41 52.07045 (18052904)
495325.95 3761416.41 51.54822 (18052904) 495345.95
3761416.41 51.10007 (18052904)
495365.95 3761416.41 49.65819 (18052904) 495385.95
3761416.41 49.07992 (22101301)
495405.95 3761416.41 48.67298 (22101301) 495425.95
3761416.41 48.28720 (22101301)
495445.95 3761416.41 47.91302 (22101301) 495465.95
3761416.41 47.36500 (22101301)
495485.95 3761416.41 46.70463 (22101301) 495505.95
3761416.41 45.91020 (22101301)
495525.95 3761416.41 44.93882 (22101301) 494965.95
3761436.41 84.15177 (21122224)
494985.95 3761436.41 82.81522 (21122224) 495005.95
3761436.41 80.41054 (21122224)
495025.95 3761436.41 77.87964 (21122224) 495045.95
3761436.41 75.78633 (21122224)
495065.95 3761436.41 73.91047 (21122224) 495085.95
3761436.41 71.60413 (21122224)
495105.95 3761436.41 67.98251 (21122224) 495125.95
3761436.41 63.88059 (21122224)
495145.95 3761436.41 59.86076 (21122224) 495165.95
3761436.41 56.38597 (21122224)
495185.95 3761436.41 54.31999 (18052904) 495205.95
3761436.41 52.94942 (18052904)
495225.95 3761436.41 53.29742 (18052904) 495245.95
3761436.41 53.83326 (18052904)
495265.95 3761436.41 52.61829 (22101301) 495285.95
3761436.41 52.22285 (22101301)
495305.95 3761436.41 52.13838 (22101301) 495325.95
3761436.41 52.74158 (22101301)
495345.95 3761436.41 53.60263 (22101301) 495365.95

3761436.41   52.84879 (22101301)
        495385.95   3761436.41   51.90625 (22101301)   495405.95
3761436.41   50.99950 (22101301)
        495425.95   3761436.41   50.14625 (22101301)   495445.95
3761436.41   49.30481 (22101301)
        495465.95   3761436.41   48.39165 (22101301)   495485.95
3761436.41   47.46000 (22101301)
        495505.95   3761436.41   46.50677 (22101301)   495525.95
3761436.41   45.51928 (22101301)
        494845.95   3761456.41   109.78731 (18011021)   494945.95
3761456.41   88.44174 (21122224)
        494965.95   3761456.41   87.06702 (21122224)   494985.95
3761456.41   84.21222 (21122224)
        495005.95   3761456.41   80.29568 (21122224)   495025.95
3761456.41   76.88547 (21122224)
        495045.95   3761456.41   73.95470 (21122224)   495065.95
3761456.41   71.17845 (18052904)
        495085.95   3761456.41   68.99535 (18052904)   495105.95
3761456.41   66.61980 (18052904)
        495125.95   3761456.41   63.70758 (18052904)   495145.95
3761456.41   60.44837 (18052904)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: BREATHIN ***
                                  INCLUDING SOURCE(S):   STCK2   ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        495165.95   3761456.41   58.12600 (22101301)   495185.95
3761456.41   56.63659 (22101301)
        495205.95   3761456.41   55.75589 (22101301)   495225.95
3761456.41   56.31218 (22101301)
        495245.95   3761456.41   57.02031 (22101301)   495265.95
3761456.41   55.73835 (22101301)
        495285.95   3761456.41   54.78782 (22101301)   495305.95

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3761456.41       54.36534  (22101301)
        495325.95   3761456.41       54.64130  (22101301)                495345.95
3761456.41       55.04895  (22101301)
        495365.95   3761456.41       53.77846  (22101301)                495385.95
3761456.41       52.41219  (22101301)
        495405.95   3761456.41       51.17157  (22101301)                495425.95
3761456.41       50.07268  (22101301)
        495445.95   3761456.41       49.06402  (22101301)                495465.95
3761456.41       48.04873  (22101007)
        495485.95   3761456.41       47.23355  (22101007)                495505.95
3761456.41       46.48911  (22101007)
        495525.95   3761456.41       45.79061  (22101007)                494865.95
3761476.41      103.87012  (18010317)
        494885.95   3761476.41      100.42130  (21122224)                494905.95
3761476.41       96.18569  (21122224)
        494925.95   3761476.41       91.84786  (21122224)                494945.95
3761476.41       87.97088  (21122224)
        494965.95   3761476.41       84.17325  (21122224)                494985.95
3761476.41       80.14099  (21122224)
        495005.95   3761476.41       76.38133  (18052904)                495025.95
3761476.41       73.69134  (18052904)
        495045.95   3761476.41       72.22556  (22101301)                495065.95
3761476.41       71.46293  (22101301)
        495085.95   3761476.41       70.06812  (22101301)                495105.95
3761476.41       68.65461  (22101301)
        495125.95   3761476.41       66.91873  (22101301)                495145.95
3761476.41       64.76856  (22101301)
        495165.95   3761476.41       62.33682  (22101301)                495185.95
3761476.41       60.72318  (22101301)
        495205.95   3761476.41       59.47334  (22101301)                495225.95
3761476.41       58.96322  (22101301)
        495245.95   3761476.41       58.48044  (22101301)                495265.95
3761476.41       56.77531  (22101301)
        495285.95   3761476.41       55.44889  (22101301)                495305.95
3761476.41       54.57792  (22101301)
        495325.95   3761476.41       54.54914  (22101007)                495345.95
3761476.41       54.93069  (22101007)
        495365.95   3761476.41       53.71710  (22101007)                495385.95
3761476.41       52.52130  (22101007)
        495405.95   3761476.41       51.51906  (22101007)                495425.95
3761476.41       50.73687  (22101007)
        495445.95   3761476.41       50.12404  (22101007)                495465.95
3761476.41       48.95903  (22101007)
        495485.95   3761476.41       47.86985  (22101007)                495505.95
3761476.41       46.91466  (22101007)
        495525.95   3761476.41       46.06084  (22101007)                494865.95
3761496.41      102.47718  (23092203)
        494885.95   3761496.41       97.69726  (23092203)                494905.95
3761496.41       92.61395  (23092203)
        494925.95   3761496.41       89.12949  (23120721)                494945.95
```

3761496.41 86.47459 (23120721)
 494965.95 3761496.41 83.86096 (23120721) 494985.95
3761496.41 81.30493 (22101301)
 495005.95 3761496.41 78.43175 (22101301) 495025.95
3761496.41 76.68829 (22101301)
 495045.95 3761496.41 75.36463 (22101301) 495065.95
3761496.41 73.98123 (22101301)
 495085.95 3761496.41 72.15958 (22101301) 495105.95
3761496.41 69.85656 (22101301)
 495125.95 3761496.41 67.72458 (22101301) 495145.95
3761496.41 65.56827 (22101301)
 495165.95 3761496.41 63.28301 (22101301) 495185.95
3761496.41 62.18373 (22101007)
 495205.95 3761496.41 61.17267 (22101007) 495225.95
3761496.41 60.18832 (22101007)
 495245.95 3761496.41 59.09998 (22101007) 495265.95
3761496.41 57.65298 (22101007)
 495285.95 3761496.41 56.58291 (22101007) 495305.95
3761496.41 55.78679 (22101007)
 495325.95 3761496.41 55.33274 (22101007) 495345.95
3761496.41 54.92513 (22101007)
 495365.95 3761496.41 53.39459 (22101007) 495385.95
3761496.41 52.03896 (22101007)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                          *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: BREATHIN ***
                                INCLUDING SOURCE(S): STCK2 ,

                                     *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                   ** CONC OF VARIOUS IN MICROGRAMS/M**3 **

      X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)
 - - -

```
3761496.41       45.61221  (22101007)
        495525.95   3761496.41       44.62630  (22101007)                494865.95
3761516.41      107.96712  (23120721)
        494885.95   3761516.41      103.63728  (23120721)                494905.95
3761516.41       98.91196  (23120721)
        494925.95   3761516.41       94.89088  (23120721)                494945.95
3761516.41       91.16938  (23120721)
        494965.95   3761516.41       87.57767  (23120721)                494985.95
3761516.41       84.07575  (23120721)
        495005.95   3761516.41       80.29820  (23120721)                495025.95
3761516.41       77.16407  (23120721)
        495045.95   3761516.41       74.82810  (22101007)                495065.95
3761516.41       73.79621  (22101007)
        495085.95   3761516.41       72.16491  (22101007)                495105.95
3761516.41       69.96817  (22101007)
        495125.95   3761516.41       67.95857  (22101007)                495145.95
3761516.41       66.02206  (22101007)
        495165.95   3761516.41       64.03177  (22101007)                495185.95
3761516.41       62.49187  (22101007)
        495205.95   3761516.41       61.03206  (22101007)                495225.95
3761516.41       59.64109  (22101007)
        495245.95   3761516.41       58.26541  (22101007)                495265.95
3761516.41       56.91819  (21070905)
        495285.95   3761516.41       56.00347  (21070905)                495305.95
3761516.41       55.21826  (21070905)
        495325.95   3761516.41       54.53388  (21070905)                495345.95
3761516.41       53.85193  (21070905)
        495365.95   3761516.41       52.71076  (21070905)                495385.95
3761516.41       51.67259  (21070905)
        495405.95   3761516.41       50.79783  (21070905)                495425.95
3761516.41       50.09638  (21070905)
        495445.95   3761516.41       49.50410  (21070905)                495465.95
3761516.41       48.42090  (21070905)
        495485.95   3761516.41       47.39194  (21070905)                495505.95
3761516.41       46.48005  (21070905)
        495525.95   3761516.41       45.67754  (21070905)                494865.95
3761536.41      110.24888  (23120721)
        494885.95   3761536.41      104.67853  (23120721)                494905.95
3761536.41       98.83129  (23120721)
        494925.95   3761536.41       93.98221  (23120721)                494945.95
3761536.41       89.57538  (23120721)
        494965.95   3761536.41       85.72925  (18040602)                494985.95
3761536.41       83.15039  (18040602)
        495005.95   3761536.41       79.70014  (18040602)                495025.95
3761536.41       77.45272  (18040602)
        495045.95   3761536.41       75.95455  (21070905)                495065.95
3761536.41       74.89814  (21070905)
        495085.95   3761536.41       73.15589  (21070905)                495105.95
3761536.41       71.14063  (21070905)
        495125.95   3761536.41       69.34111  (21070905)                495145.95
```

3761536.41   67.63160 (21070905)
        495165.95   3761536.41   65.88233 (21070905)   495185.95
3761536.41   64.30785 (21070905)
        495205.95   3761536.41   62.88317 (21070905)   495225.95
3761536.41   61.54328 (21070905)
        495245.95   3761536.41   60.23905 (21070905)   495265.95
3761536.41   58.94658 (21070905)
        495285.95   3761536.41   57.80091 (21070905)   495305.95
3761536.41   56.73330 (21070905)
        495325.95   3761536.41   55.71012 (21070905)   495345.95
3761536.41   54.68356 (21070905)
        495365.95   3761536.41   53.50068 (21070905)   495385.95
3761536.41   52.37984 (21070905)
        495405.95   3761536.41   51.38792 (21070905)   495425.95
3761536.41   50.53409 (21070905)
        495445.95   3761536.41   49.78647 (21070905)   495465.95
3761536.41   48.64642 (21070905)
        495485.95   3761536.41   47.53385 (21070905)   495505.95
3761536.41   46.52889 (21070905)
        495525.95   3761536.41   45.62991 (21070905)   494865.95
3761556.41   108.26592 (23102622)
        494885.95   3761556.41   104.33235 (23102622)   494905.95
3761556.41   99.21563 (23102622)
        494925.95   3761556.41   95.60106 (23102622)   494945.95
3761556.41   92.57372 (23102622)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                             *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: BREATHIN ***
                                 INCLUDING SOURCE(S):   STCK2   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        494965.95   3761556.41   89.60460 (23102622)   494985.95
3761556.41   86.47590 (23102622)
        495005.95   3761556.41   82.86741 (23102622)   495025.95

```
3761556.41       80.30140  (23102622)
        495045.95   3761556.41       78.32572  (23102622)                495065.95
3761556.41       76.41409  (23102622)
        495085.95   3761556.41       73.97705  (23102622)                495105.95
3761556.41       71.89541  (21070905)
        495125.95   3761556.41       70.06247  (21070905)                495145.95
3761556.41       68.27234  (21070905)
        495165.95   3761556.41       66.38650  (21070905)                495185.95
3761556.41       64.63158  (21070905)
        495205.95   3761556.41       62.97826  (21070905)                495225.95
3761556.41       61.41579  (21070905)
        495245.95   3761556.41       59.90043  (21070905)                495265.95
3761556.41       58.42154  (21070905)
        495285.95   3761556.41       57.05873  (21070905)                495305.95
3761556.41       55.75891  (21070905)
        495325.95   3761556.41       54.52352  (21070905)                495345.95
3761556.41       53.33714  (21070905)
        495365.95   3761556.41       52.19170  (21070905)                495385.95
3761556.41       51.03976  (21070905)
        495405.95   3761556.41       49.95186  (21070905)                495425.95
3761556.41       48.95530  (21070905)
        495445.95   3761556.41       48.04341  (21070905)                495465.95
3761556.41       46.96503  (21070905)
        495485.95   3761556.41       45.87441  (21070905)                495505.95
3761556.41       44.84951  (21070905)
        495525.95   3761556.41       43.90751  (21070905)                494845.95
3761576.41      113.32077  (23102622)
        494865.95   3761576.41      108.92208  (23102622)                494885.95
3761576.41      104.60559  (23102622)
        494905.95   3761576.41       99.36674  (23102622)                494925.95
3761576.41       95.49662  (23102622)
        494945.95   3761576.41       92.29536  (23102622)                494965.95
3761576.41       89.17201  (23102622)
        494985.95   3761576.41       85.82937  (23102622)                495005.95
3761576.41       82.39803  (23102622)
        495025.95   3761576.41       79.75459  (23102622)                495045.95
3761576.41       77.54504  (23102622)
        495065.95   3761576.41       75.37058  (23102622)                495085.95
3761576.41       72.71468  (23102622)
        495105.95   3761576.41       70.42982  (23102622)                495125.95
3761576.41       68.40946  (23102622)
        495145.95   3761576.41       66.47918  (23102622)                495165.95
3761576.41       64.59104  (23102622)
        495185.95   3761576.41       62.79133  (23102622)                495205.95
3761576.41       61.07301  (23102622)
        495225.95   3761576.41       59.41849  (23102622)                495245.95
3761576.41       57.83140  (23102622)
        495265.95   3761576.41       56.28694  (23102622)                495285.95
3761576.41       54.80852  (23102622)
        495305.95   3761576.41       53.37566  (23102622)                495325.95
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3761576.41   52.00517 (23102622)
        495345.95   3761576.41   50.69874 (23102622)   495365.95
3761576.41   49.45647 (23102622)
        495385.95   3761576.41   48.24991 (23102622)   495405.95
3761576.41   47.08433 (23102622)
        495425.95   3761576.41   45.96683 (23102622)   495445.95
3761576.41   45.24770 (19022622)
        495465.95   3761576.41   44.42943 (19022622)   495485.95
3761576.41   43.57368 (19022622)
        495505.95   3761576.41   42.79321 (19022622)   495525.95
3761576.41   42.09695 (19022622)
        494845.95   3761596.41   105.47241 (23102622)   494865.95
3761596.41   101.22154 (23102622)
        494885.95   3761596.41   97.23227 (23102622)   494905.95
3761596.41   92.51587 (23102622)
        494925.95   3761596.41   88.86602 (23102622)   494945.95
3761596.41   85.87190 (23102622)
        494965.95   3761596.41   82.97812 (23102622)   494985.95
3761596.41   79.85119 (23102622)
        495005.95   3761596.41   76.90685 (23102622)   495025.95
3761596.41   74.45389 (23102622)
        495045.95   3761596.41   72.28346 (23102622)   495065.95
3761596.41   70.10866 (23102622)
        495085.95   3761596.41   67.61249 (23102622)   495105.95
3761596.41   65.51057 (23102622)
        495125.95   3761596.41   63.61578 (23102622)   495145.95
3761596.41   61.83072 (23102622)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: BREATHIN ***
                                 INCLUDING SOURCE(S):   STCK2   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        495165.95   3761596.41   60.09594 (23102622)   495185.95

3761596.41 58.42588 (23102622)
495205.95 3761596.41 56.81428 (23102622) 495225.95
3761596.41 55.43527 (19022622)
495245.95 3761596.41 54.33385 (19022622) 495265.95
3761596.41 53.23062 (19022622)
495285.95 3761596.41 52.11437 (19022622) 495305.95
3761596.41 50.97694 (19022622)
495325.95 3761596.41 49.87378 (19022622) 495345.95
3761596.41 48.82582 (19022622)
495365.95 3761596.41 47.86142 (19022622) 495385.95
3761596.41 46.93649 (19022622)
495405.95 3761596.41 46.00256 (19022622) 495425.95
3761596.41 45.08283 (19022622)
495445.95 3761596.41 44.24181 (19022622) 495465.95
3761596.41 43.44383 (19022622)
495485.95 3761596.41 42.64374 (19022622) 495505.95
3761596.41 41.89913 (19022622)
495525.95 3761596.41 41.21484 (19022622) 494845.95
3761616.41 96.74197 (22120520)
494865.95 3761616.41 93.45211 (22120520) 494885.95
3761616.41 90.21777 (22120520)
494905.95 3761616.41 85.93258 (22120520) 494925.95
3761616.41 82.67877 (22120520)
494945.95 3761616.41 80.33248 (22120520) 494965.95
3761616.41 78.02513 (22120520)
494985.95 3761616.41 75.24556 (22120520) 495005.95
3761616.41 72.75450 (22120520)
495025.95 3761616.41 70.71076 (22120520) 495045.95
3761616.41 68.83470 (22120520)
495065.95 3761616.41 66.88250 (22120520) 495085.95
3761616.41 64.59917 (19120820)
495105.95 3761616.41 62.84490 (19120820) 495125.95
3761616.41 61.30637 (19120820)
495145.95 3761616.41 59.87783 (19120820) 495165.95
3761616.41 58.49609 (19120820)
495185.95 3761616.41 57.10965 (19120820) 495205.95
3761616.41 55.77575 (19120820)
495225.95 3761616.41 54.47477 (19120820) 495245.95
3761616.41 53.22269 (19120820)
495265.95 3761616.41 52.02243 (19120820) 495285.95
3761616.41 50.81654 (19120820)
495305.95 3761616.41 49.64159 (19120820) 495325.95
3761616.41 48.49123 (19120820)
495345.95 3761616.41 47.37669 (19120820) 495365.95
3761616.41 46.31281 (19120820)
495385.95 3761616.41 45.32704 (19120820) 495405.95
3761616.41 44.35524 (19120820)
495425.95 3761616.41 43.38448 (19120820) 495445.95
3761616.41 42.39857 (19120820)
495465.95 3761616.41 41.49978 (19120820) 495485.95

3761616.41   40.63356 (19120820)
        495505.95   3761616.41   39.82424 (19021819)   495525.95
3761616.41   39.24744 (23091001)
        494845.95   3761636.41   97.08520 (18020918)   494865.95
3761636.41   93.64668 (22122923)
        494885.95   3761636.41   90.14182 (22122923)   494905.95
3761636.41   85.79006 (22122923)
        494925.95   3761636.41   82.43579 (22122923)   494945.95
3761636.41   79.78201 (22122923)
        494965.95   3761636.41   77.10177 (22122923)   494985.95
3761636.41   74.08541 (19122417)
        495005.95   3761636.41   71.77027 (19122417)   495025.95
3761636.41   69.78015 (19122417)
        495045.95   3761636.41   67.99327 (19122417)   495065.95
3761636.41   66.15565 (19122417)
        495085.95   3761636.41   63.99829 (22120520)   495105.95
3761636.41   62.30258 (22120520)
        495125.95   3761636.41   60.86511 (22120520)   495145.95
3761636.41   59.50551 (22120520)
        495165.95   3761636.41   58.09705 (22120520)   495185.95
3761636.41   56.70685 (22120520)
        495205.95   3761636.41   55.33309 (22120520)   495225.95
3761636.41   53.99580 (22120520)
        495245.95   3761636.41   52.71410 (22120520)   495265.95
3761636.41   51.47162 (22120520)
        495285.95   3761636.41   50.25728 (22120520)   495305.95
3761636.41   49.06225 (22120520)
        495325.95   3761636.41   47.88910 (22120520)   495345.95
3761636.41   46.75222 (22120520)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                             *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: BREATHIN ***
                                INCLUDING SOURCE(S):   STCK2   ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -

- - - -

3761676.41 76.98672 (23020619)
  494965.95 3761676.41 75.45973 (23020619) 494985.95
3761676.41 73.29163 (23020619)
  495005.95 3761676.41 71.48914 (23020619) 495025.95
3761676.41 69.92366 (23020619)
  495045.95 3761676.41 68.40255 (23020619) 495065.95
3761676.41 66.75510 (23020619)
  495085.95 3761676.41 64.65294 (23020619) 495105.95
3761676.41 62.94228 (23020619)
  495125.95 3761676.41 61.46767 (23020619) 495145.95
3761676.41 60.01298 (23020619)
  495165.95 3761676.41 58.46233 (23020619) 495185.95
3761676.41 56.87985 (23020619)
  495205.95 3761676.41 55.30084 (23020619) 495225.95
3761676.41 53.73349 (23020619)
  495245.95 3761676.41 52.47038 (23120117) 495265.95
3761676.41 51.45252 (23120117)
  495285.95 3761676.41 50.51033 (23120117) 495305.95
3761676.41 49.56103 (23120117)
  495325.95 3761676.41 48.60675 (23120117) 495345.95
3761676.41 47.64715 (23120117)
  495365.95 3761676.41 46.60685 (23120117) 495385.95
3761676.41 45.61809 (23120117)
  495405.95 3761676.41 44.70449 (23120117) 495425.95
3761676.41 43.87266 (23120117)
  495445.95 3761676.41 43.23079 (22120817) 495465.95
3761676.41 42.42212 (22120817)
  495485.95 3761676.41 41.61260 (22120817) 495505.95
3761676.41 40.84545 (22120817)
  495525.95 3761676.41 40.12022 (22120817) 494845.95
3761696.41 93.83078 (18121117)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: BREATHIN ***
INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)

```
Y-COORD (M)        CONC     (YYMMDDHH)
 - - -
```

3761716.41   61.68962 (23123019)
        495125.95   3761716.41   60.04792 (23123019)   495145.95
3761716.41   58.68407 (23121820)
        495165.95   3761716.41   57.68656 (23121820)   495185.95
3761716.41   56.56791 (23121820)
        495205.95   3761716.41   55.63996 (23121820)   495225.95
3761716.41   54.75525 (23121820)
        495245.95   3761716.41   53.74272 (23121820)   495265.95
3761716.41   52.40780 (23121820)
        495285.95   3761716.41   51.21412 (23121820)   495305.95
3761716.41   50.14993 (23121820)
        495325.95   3761716.41   49.06643 (23121820)   495345.95
3761716.41   47.91588 (23121820)
        495365.95   3761716.41   46.83428 (23121820)   495385.95
3761716.41   45.67797 (23121820)
        495405.95   3761716.41   44.60582 (23020619)   495425.95
3761716.41   43.61936 (23020619)
        495445.95   3761716.41   42.69698 (23020619)   495465.95
3761716.41   41.82607 (23020619)
        495485.95   3761716.41   40.84681 (23020619)   495505.95
3761716.41   40.08461 (19021524)
        495525.95   3761716.41   39.38565 (19021524)   495545.95
3761716.41   38.69737 (19021524)
        494845.95   3761736.41   92.65068 (22021918)   494865.95
3761736.41   90.33186 (22021918)
        494885.95   3761736.41   87.13713 (22021918)   494905.95
3761736.41   83.45402 (22021918)
        494925.95   3761736.41   80.26207 (22021918)   494945.95
3761736.41   77.86017 (21021918)
        494965.95   3761736.41   76.06761 (21021918)   494985.95
3761736.41   73.45064 (21021918)
        495005.95   3761736.41   71.13613 (21021918)   495025.95
3761736.41   68.91185 (21021918)

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: BREATHIN ***
                                  INCLUDING SOURCE(S):   STCK2   ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                      ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
495045.95	3761736.41	66.38355	(21021918)	495065.95	3761736.41	64.33360	(22011802)
495085.95	3761736.41	62.24116	(22011802)	495105.95	3761736.41	60.97517	(22123004)
495125.95	3761736.41	59.88641	(23123019)	495145.95	3761736.41	58.76619	(23123019)
495165.95	3761736.41	57.54361	(23123019)	495185.95	3761736.41	56.10556	(23123019)
495205.95	3761736.41	54.87586	(23123019)	495225.95	3761736.41	53.72771	(23123019)
495245.95	3761736.41	52.88238	(21121817)	495265.95	3761736.41	51.67812	(21121817)
495285.95	3761736.41	50.71056	(23121820)	495305.95	3761736.41	49.88254	(23121820)
495325.95	3761736.41	49.05158	(23121820)	495345.95	3761736.41	48.12780	(23121820)
495365.95	3761736.41	47.32327	(23121820)	495385.95	3761736.41	46.50150	(23121820)
495405.95	3761736.41	45.56597	(23121820)	495425.95	3761736.41	44.56808	(23121820)
495445.95	3761736.41	43.60883	(23121820)	495465.95	3761736.41	42.85021	(23121820)
495485.95	3761736.41	41.91018	(23121820)	495505.95	3761736.41	40.89728	(23121820)
495525.95	3761736.41	39.87451	(23121820)	495545.95	3761736.41	38.87701	(23121820)
494845.95	3761756.41	89.68421	(18021420)	494865.95	3761756.41	86.97300	(18021420)
494885.95	3761756.41	83.46812	(18021420)	494905.95	3761756.41	81.01748	(22021918)
494925.95	3761756.41	79.38991	(22021918)	494945.95	3761756.41	77.50325	(22021918)
494965.95	3761756.41	75.13125	(22021918)	494985.95	3761756.41	72.17729	(22021918)
495005.95	3761756.41	70.53308	(21021918)	495025.95	3761756.41	69.20988	(21021918)
495045.95	3761756.41	67.54260	(21021918)	495065.95	3761756.41	65.52625	(21021918)
495085.95	3761756.41	63.30557	(21021918)	495105.95	3761756.41	61.19765	(21021918)
495125.95	3761756.41	59.58105	(21010906)	495145.95	3761756.41	57.93387	(21010906)
495165.95	3761756.41	56.15780	(21010906)	495185.95	3761756.41	55.05059	(23123019)
495205.95	3761756.41	54.19691	(23123019)	495225.95			

3761756.41 53.42819 (23123019)
  495245.95 3761756.41 52.57263 (23123019) 495265.95
3761756.41 51.30287 (23123019)
  495285.95 3761756.41 50.11689 (23123019) 495305.95
3761756.41 49.00674 (23123019)
  495325.95 3761756.41 47.85967 (23123019) 495345.95
3761756.41 47.11533 (21121817)
  495365.95 3761756.41 46.50320 (21121817) 495385.95
3761756.41 45.86414 (21121817)
  495405.95 3761756.41 45.10499 (21121817) 495425.95
3761756.41 44.27691 (23121820)
  495445.95 3761756.41 43.55628 (23121820) 495465.95
3761756.41 42.94753 (23121820)
  495485.95 3761756.41 42.22269 (23121820) 495505.95
3761756.41 41.43561 (23121820)
  495525.95 3761756.41 40.62417 (23121820) 495545.95
3761756.41 39.83007 (23121820)
  495565.95 3761756.41 39.01407 (23121820) 494845.95
3761776.41 86.99127 (23123018)
  494865.95 3761776.41 84.79492 (23123018) 494885.95
3761776.41 81.79410 (23123018)
  494905.95 3761776.41 79.13385 (18021420) 494925.95
3761776.41 76.88083 (18021420)
  494945.95 3761776.41 74.29899 (23021318) 494965.95
3761776.41 73.13908 (22021918)
  494985.95 3761776.41 71.60994 (22021918) 495005.95
3761776.41 69.88185 (22021918)
  495025.95 3761776.41 67.86592 (22021918) 495045.95
3761776.41 65.66595 (21021918)
  495065.95 3761776.41 64.64054 (21021918) 495085.95
3761776.41 63.33407 (21021918)
  495105.95 3761776.41 62.02519 (21021918) 495125.95
3761776.41 60.56577 (21021918)
  495145.95 3761776.41 58.91917 (21021918) 495165.95
3761776.41 57.09363 (21021918)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: BREATHIN ***
INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
495185.95	3761776.41	55.49284	(21010906)	495205.95	3761776.41	53.93471	(21010906)
495225.95	3761776.41	52.44847	(21010906)	495245.95	3761776.41	50.95295	(21010906)
495265.95	3761776.41	49.89361	(23123019)	495285.95	3761776.41	49.20239	(23123019)
495305.95	3761776.41	48.49586	(23123019)	495325.95	3761776.41	47.71861	(23123019)
495345.95	3761776.41	46.86213	(23123019)	495365.95	3761776.41	46.02141	(23123019)
495385.95	3761776.41	45.15113	(23123019)	495405.95	3761776.41	44.19173	(23123019)
495425.95	3761776.41	43.27326	(21121817)	495445.95	3761776.41	42.73795	(21121817)
495465.95	3761776.41	42.17476	(21121817)	495485.95	3761776.41	41.57779	(21121817)
495505.95	3761776.41	40.94013	(21121817)	495525.95	3761776.41	40.27759	(21121817)
495545.95	3761776.41	39.62537	(21121817)	495565.95	3761776.41	38.97266	(21121817)
494845.95	3761796.41	91.33212	(19011720)	494865.95	3761796.41	81.82535	(23123018)
494885.95	3761796.41	80.78469	(23123018)	494905.95	3761796.41	79.03922	(23123018)
494925.95	3761796.41	76.84536	(23123018)	494945.95	3761796.41	74.23681	(19120407)
494965.95	3761796.41	72.51790	(19120407)	494985.95	3761796.41	70.29561	(19120407)
495005.95	3761796.41	68.58053	(23021318)	495025.95	3761796.41	67.16238	(23021318)
495045.95	3761796.41	65.46137	(22021918)	495065.95	3761796.41	63.90442	(22021918)
495085.95	3761796.41	62.17052	(18021819)	495105.95	3761796.41	60.53857	(21021918)
495125.95	3761796.41	59.80914	(21021918)	495145.95	3761796.41	58.84945	(21021918)
495165.95	3761796.41	57.65167	(21021918)	495185.95	3761796.41	56.12544	(21021918)
495205.95	3761796.41	54.48721	(21021918)	495225.95	3761796.41	52.85896	(21021918)
495245.95	3761796.41	51.59389	(21010906)	495265.95	3761796.41	50.35673	(21010906)
495285.95	3761796.41	49.07351	(21010906)	495305.95			

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3761796.41       47.76148  (21010906)
        495325.95   3761796.41       46.41622  (21010906)                495345.95
3761796.41       45.48326  (23123019)
        495365.95   3761796.41       44.97707  (23123019)                495385.95
3761796.41       44.41267  (23123019)
        495405.95   3761796.41       43.77357  (23123019)                495425.95
3761796.41       43.08171  (23123019)
        495445.95   3761796.41       42.35463  (23123019)                495465.95
3761796.41       41.59227  (23123019)
        495485.95   3761796.41       40.79863  (23123019)                495505.95
3761796.41       39.97747  (23123019)
        495525.95   3761796.41       39.28390  (21121817)                495545.95
3761796.41       38.85539  (21121817)
        495565.95   3761796.41       38.43140  (21121817)                494965.95
3761816.41       72.28441  (23123018)
        494985.95   3761816.41       70.03197  (23123018)                495005.95
3761816.41       68.27014  (19120407)
        495025.95   3761816.41       66.47540  (19120407)                495045.95
3761816.41       64.32166  (19120407)
        495065.95   3761816.41       63.27093  (23021318)                495085.95
3761816.41       61.94141  (23021318)
        495105.95   3761816.41       60.38121  (23021318)                495125.95
3761816.41       59.02581  (18021819)
        495145.95   3761816.41       57.56011  (22022020)                495165.95
3761816.41       56.21199  (22022020)
        495185.95   3761816.41       55.09427  (21021918)                495205.95
3761816.41       54.12583  (21021918)
        495225.95   3761816.41       53.09763  (21021918)                495245.95
3761816.41       51.98587  (21021918)
        495265.95   3761816.41       50.71121  (21021918)                495285.95
3761816.41       49.34608  (21021918)
        495305.95   3761816.41       48.15302  (21010906)                495325.95
3761816.41       47.19301  (21010906)
        495345.95   3761816.41       46.17887  (21010906)                495365.95
3761816.41       45.08535  (21010906)
        495385.95   3761816.41       43.90880  (21010906)                495405.95
3761816.41       42.76204  (22120717)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                       ***        08:18:30

                                   PAGE 222
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  BREATHIN ***
                                   INCLUDING SOURCE(S):     STCK2       ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
```

***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
495425.95	3761816.41	41.75204	(22120717)	495445.95	3761816.41	41.24037	(23123019)
495465.95	3761816.41	40.77210	(23123019)	495485.95	3761816.41	40.26352	(23123019)
495505.95	3761816.41	39.71700	(23123019)	495525.95	3761816.41	39.13460	(23123019)
495545.95	3761816.41	38.51613	(23123019)	495565.95	3761816.41	37.87615	(23123019)
495125.95	3761836.41	58.70574	(22022518)	495145.95	3761836.41	57.36895	(23021318)
495165.95	3761836.41	56.03796	(21020818)	495185.95	3761836.41	54.48913	(21020818)
495205.95	3761836.41	53.32159	(22022020)	495225.95	3761836.41	52.16887	(22022020)
495365.95	3761836.41	45.37377	(18021419)	495385.95	3761836.41	44.31476	(21010906)
495405.95	3761836.41	43.40723	(21010906)	495425.95	3761836.41	42.43515	(21010906)
495445.95	3761836.41	41.42444	(21010906)	495465.95	3761836.41	40.52232	(22120717)
495485.95	3761836.41	39.70374	(22120717)	495505.95	3761836.41	38.85215	(22120717)
495525.95	3761836.41	38.04563	(23011922)	495545.95	3761836.41	37.63860	(23123019)
495565.95	3761836.41	37.24040	(23123019)	495125.95	3761856.41	57.91960	(19120407)
495145.95	3761856.41	56.65603	(22022518)	495165.95	3761856.41	55.70370	(22022518)
495185.95	3761856.41	54.32379	(22022518)	495205.95	3761856.41	52.98777	(21020818)
495225.95	3761856.41	51.94323	(21020818)	495385.95	3761856.41	44.61106	(18021419)
495405.95	3761856.41	43.65782	(18021419)	495425.95	3761856.41	42.66328	(18021419)
495445.95	3761856.41	41.62766	(18021419)	495465.95	3761856.41	40.71422	(21010906)
495485.95	3761856.41	39.94661	(21010906)	495505.95	3761856.41	39.13111	(21010906)
495525.95	3761856.41	38.47994	(22120717)	495545.95	3761856.41	37.86588	(22120717)
495565.95	3761856.41	37.19161	(22120717)	495125.95			

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3761876.41       57.35501  (23123018)
        495145.95   3761876.41       56.08866  (19120407)                495165.95
3761876.41       54.89187  (19120407)
        495185.95   3761876.41       53.36583  (21020618)                495205.95
3761876.41       52.59482  (22022518)
        495225.95   3761876.41       51.75114  (22022518)                495385.95
3761876.41       43.60401  (18021419)
        495405.95   3761876.41       43.04588  (18021419)                495425.95
3761876.41       42.44477  (18021419)
        495445.95   3761876.41       41.77680  (18021419)                495465.95
3761876.41       41.06868  (18021419)
        495485.95   3761876.41       40.27659  (18021419)                495505.95
3761876.41       39.43482  (18021419)
        495525.95   3761876.41       38.56265  (18021419)                495545.95
3761876.41       37.75079  (21010906)
        495565.95   3761876.41       37.17919  (22120717)                495125.95
3761896.41       57.01550  (23123018)
        495145.95   3761896.41       55.92674  (23123018)                495165.95
3761896.41       54.45859  (23123018)
        495185.95   3761896.41       52.87648  (21020618)                495205.95
3761896.41       52.25775  (21020618)
        495225.95   3761896.41       51.36818  (21020618)                495385.95
3761896.41       43.47076  (22022020)
        495405.95   3761896.41       42.52112  (22022020)                495425.95
3761896.41       41.53853  (22022020)
        495445.95   3761896.41       40.69705  (18021419)                495465.95
3761896.41       40.33928  (18021419)
        495485.95   3761896.41       39.89472  (18021419)                495505.95
3761896.41       39.38041  (18021419)
        495525.95   3761896.41       38.82574  (18021419)                495545.95
3761896.41       38.25401  (18021419)
        495565.95   3761896.41       37.61132  (18021419)                495585.95
3761896.41       36.80929  (18021419)
        495125.95   3761916.41       54.62707  (23123018)                495145.95
3761916.41       54.44223  (23123018)
        495165.95   3761916.41       53.87519  (23123018)                495185.95
3761916.41       52.80436  (23123018)
        495205.95   3761916.41       51.57379  (23123018)                495225.95
3761916.41       50.39568  (21020618)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                       ***        08:18:30

                                  PAGE 223
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  BREATHIN ***
                                  INCLUDING SOURCE(S):     STCK2       ,
```

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
495385.95	3761916.41	42.99760	(21020818)	495405.95	3761916.41	42.06249	(21020818)
495425.95	3761916.41	41.37137	(22022020)	495445.95	3761916.41	40.71033	(22022020)
495465.95	3761916.41	39.95406	(22022020)	495485.95	3761916.41	39.10893	(22022020)
495505.95	3761916.41	38.32405	(18021419)	495525.95	3761916.41	38.11467	(18021419)
495545.95	3761916.41	37.84619	(18021419)	495565.95	3761916.41	37.49246	(18021419)
495585.95	3761916.41	36.98011	(18021419)	495125.95	3761936.41	54.01624	(23011703)
495145.95	3761936.41	52.21565	(23011703)	495165.95	3761936.41	51.52238	(23123018)
495185.95	3761936.41	51.29383	(23123018)	495205.95	3761936.41	50.87162	(23123018)
495225.95	3761936.41	50.06843	(23123018)	495145.95	3761956.41	52.61999	(23011703)
495165.95	3761956.41	51.29609	(23011703)	495185.95	3761956.41	49.42239	(23011703)
495205.95	3761956.41	48.83695	(22022220)	495225.95	3761956.41	48.50975	(22022220)
495145.95	3761976.41	52.36443	(23010506)	495165.95	3761976.41	51.11884	(23010506)
495185.95	3761976.41	49.86426	(23011703)	495205.95	3761976.41	48.63065	(23011703)
495225.95	3761976.41	47.02400	(23011703)	495145.95	3761996.41	51.09212	(23010506)
495165.95	3761996.41	50.70693	(23010506)	495185.95	3761996.41	49.72505	(23010506)
495205.95	3761996.41	48.50541	(23010506)	495225.95	3761996.41	47.53635	(23011703)
495145.95	3762016.41	48.52176	(23123020)	495165.95	3762016.41	48.88947	(23010506)
495185.95	3762016.41	48.77298	(23010506)	495205.95	3762016.41	48.34689	(23010506)
495225.95	3762016.41	47.48907	(23010506)	495145.95	3762036.41	46.26415	(19022107)
495165.95	3762036.41	46.06586	(23123020)	495185.95			

3762036.41 46.56632 (23010506)
  495205.95 3762036.41 46.90569 (23010506) 495225.95
3762036.41 46.79964 (23010506)
  495145.95 3762056.41 46.20766 (19022107) 495165.95
3762056.41 45.16506 (19022107)
  495185.95 3762056.41 43.71164 (19022107) 495205.95
3762056.41 44.30093 (23010506)
  495225.95 3762056.41 44.89170 (23010506) 494031.10
3761757.45 82.09824 (23022717)
  494022.49 3761743.26 81.50518 (23022717) 494020.46
3761734.14 81.43149 (23022717)
  494013.36 3761724.00 78.99267 (23022717) 494002.72
3761712.34 74.35464 (23022717)
  493991.57 3761703.22 69.19646 (23022717) 493980.42
3761692.58 63.48336 (23022717)
  493969.78 3761686.49 58.81783 (23022717) 493957.61
3761681.43 54.10868 (23022717)
  493943.93 3761673.82 48.64955 (23022717) 493926.19
3761672.81 44.24179 (23022717)
  493913.51 3761671.29 41.19343 (23022717) 493899.83
3761669.77 38.18449 (23022717)
  493832.42 3761639.36 29.83862 (23022418) 493822.79
3761647.47 29.18982 (23022418)
  493811.13 3761658.11 28.27233 (23022418) 493809.61
3761669.26 27.85655 (23022418)
  493817.72 3761682.44 28.06518 (23022717) 493833.43
3761689.53 31.22226 (23022717)
  493853.71 3761695.11 35.10065 (23022717) 493871.45
3761693.08 37.66226 (23022717)
  493888.17 3761693.08 40.66796 (23022717) 493905.91
3761693.59 44.27857 (23022717)
  493920.61 3761694.60 47.66827 (23022717) 493939.36
3761698.15 52.84556 (23022717)
  493959.64 3761706.77 59.81508 (23022717) 493975.35
3761717.41 65.90938 (23022717)
  493983.46 3761726.03 69.16916 (23022717) 493991.06
3761738.19 71.89914 (23022717)
  494001.20 3761754.41 74.07995 (23022717) 493984.47
3761753.40 69.62113 (23022717)
  493980.42 3761746.81 68.76892 (23022717) 493970.79
3761734.64 65.92818 (23022717)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: BREATHIN ***
                                INCLUDING SOURCE(S):   STCK2   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 - - -

3761708.80   24.29758 (23022717)
        493754.87   3761721.47   26.16333 (23022717)   493757.91
3761732.62   27.64011 (23022717)
        493772.10   3761750.36   30.84263 (23022717)   493760.44
3761749.34   29.45947 (23022717)
        493749.29   3761748.84   28.23473 (23022717)   493730.54
3761748.84   26.36459 (23022717)
        493705.70   3761747.32   23.97253 (23022717)   493712.80
3761770.63   26.24483 (23022717)
        493739.66   3761767.59   28.62824 (23022717)   493757.40
3761769.11   30.56710 (23022717)
        493780.21   3761771.14   33.23829 (23022717)   493801.50
3761770.12   35.76012 (23022717)
        493830.90   3761773.17   39.81202 (23022717)   493850.66
3761773.67   42.72104 (23022717)
        493872.46   3761773.67   46.14640 (23022717)   493893.75
3761776.71   49.72820 (23022717)
        493908.45   3761775.70   52.31282 (23022717)   493926.19
3761779.75   55.41548 (23022717)
        493937.84   3761778.74   57.65058 (23022717)   493952.54
3761780.26   60.37319 (23022717)
        493967.75   3761779.75   63.44239 (23022717)   493975.35
3761783.81   64.42540 (23022717)
        493989.54   3761780.26   67.83383 (23022717)   494000.19
3761781.78   69.75558 (23022717)
        494014.88   3761785.33   71.90390 (23022717)   494027.05
3761785.84   74.11931 (23022717)
        494049.35   3761786.34   78.08914 (23022717)   494066.08
3761786.34   80.95208 (23022717)
        494171.35   3761821.06   92.96281 (22123116)   494176.48
3761840.83   100.16714 (22123116)
        494171.35   3761886.24   91.34006 (22123116)   494831.53
3761814.80   142.17208 (19020521)
        494846.31   3761570.20   113.80312 (23102622)   494859.75
3761515.10   108.77520 (23120721)
        494839.59   3761451.93   110.97544 (18011021)   494863.63
3761459.20   104.88408 (18011021)
        494887.97   3761461.34   98.57649 (18010317)   494935.78
3761472.98   90.32891 (21122224)
        494961.89   3761422.37   85.37052 (18011021)   494996.53
3761368.08   70.58290 (22122901)
        494991.46   3761326.95   68.73969 (22122901)   495039.84
3761351.14   67.94066 (22122901)

*** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: BREATHIN ***
INCLUDING SOURCE(S):   STCK2   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
495133.92	3761336.35	39.66966	(23010216)	495229.34	3761325.60	39.70684	(18011021)
495414.80	3761335.01	50.06883	(21122224)	495539.79	3761406.24	43.11634	(22101301)
495545.17	3761697.88	38.82069	(23120117)	495576.08	3761783.89	38.60069	(21121817)
495589.52	3761934.41	36.18855	(18021419)	495387.93	3761934.41	42.87572	(22022518)
495359.70	3761828.24	45.57358	(21010906)	495237.40	3761820.18	52.38238	(21021918)
495237.40	3762072.84	43.00047	(23010506)	495127.20	3762068.81	47.37867	(19022618)
495124.51	3761818.83	59.05863	(21020818)				

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SPILL   ***
INCLUDING SOURCE(S):   VOL2   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)

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- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        495005.95   3761336.41       98.36202  (19011805)                495145.95
3761336.41       57.30486  (23010216)
        495165.95   3761336.41       53.92078  (23010216)                495185.95
3761336.41       54.05871  (22011805)
        495205.95   3761336.41       54.38399  (18010317)                495225.95
3761336.41       54.39052  (18010317)
        495245.95   3761336.41       53.91047  (18010317)                495265.95
3761336.41       54.82094  (18010317)
        495285.95   3761336.41       68.15148  (18010317)                495305.95
3761336.41       76.49724  (21122224)
        495325.95   3761336.41       81.53610  (21122224)                495345.95
3761336.41       81.19886  (21122224)
        495365.95   3761336.41       82.82547  (21122224)                495385.95
3761336.41       81.86153  (21122224)
        495405.95   3761336.41       79.19009  (21122224)                495005.95
3761356.41       99.44924  (18011021)
        495025.95   3761356.41      102.47955  (18011021)                495045.95
3761356.41      100.52386  (18011021)
        495065.95   3761356.41       92.23983  (18011021)                495085.95
3761356.41       68.92324  (18011021)
        495105.95   3761356.41       61.97604  (23010216)                495125.95
3761356.41       58.24105  (22011805)
        495145.95   3761356.41       59.44232  (18010317)                495165.95
3761356.41       61.54483  (18010317)
        495185.95   3761356.41       61.99274  (18010317)                495205.95
3761356.41       61.61266  (18010317)
        495225.95   3761356.41       61.64991  (18010317)                495245.95
3761356.41       62.12825  (18010317)
        495265.95   3761356.41       62.45706  (18010317)                495285.95
3761356.41       73.54356  (21122224)
        495305.95   3761356.41       80.79152  (21122224)                495325.95
3761356.41       81.14072  (21122224)
        495345.95   3761356.41       78.27956  (21122224)                495365.95
3761356.41       76.96184  (18052904)
        495385.95   3761356.41       77.86465  (18052904)                495405.95
3761356.41       77.72252  (18052904)
        495425.95   3761356.41       77.01832  (18052904)                495445.95
3761356.41       76.41074  (18052904)
        495005.95   3761376.41      108.37351  (18011021)                495025.95
3761376.41      107.65956  (18011021)
        495045.95   3761376.41      103.70260  (18011021)                495065.95
3761376.41       96.75752  (18011021)
        495085.95   3761376.41       86.48913  (18010317)                495105.95
3761376.41       77.00461  (18010317)
        495125.95   3761376.41       72.81912  (18010317)                495145.95
3761376.41       71.67186  (18010317)
        495165.95   3761376.41       69.61557  (18010317)                495185.95
3761376.41       66.80702  (18010317)
        495205.95   3761376.41       64.52476  (18010317)                495225.95
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3761376.41   64.24266 (18010317)
        495245.95   3761376.41   64.84324 (23092203)   495265.95
3761376.41   67.37300 (23092203)
        495285.95   3761376.41   75.13018 (21122224)   495305.95
3761376.41   78.90812 (18052904)
        495325.95   3761376.41   79.26126 (18052904)   495345.95
3761376.41   78.13799 (18052904)
        495365.95   3761376.41   77.62641 (18052904)   495385.95
3761376.41   76.73733 (18052904)
        495405.95   3761376.41   75.30890 (18052904)   495425.95
3761376.41   73.60627 (18052904)
        495445.95   3761376.41   71.86878 (18052904)   495465.95
3761376.41   69.13092 (18052904)
        495485.95   3761376.41   65.61836 (18052904)   494985.95
3761396.41   108.73181 (18011021)
        495005.95   3761396.41   105.57466 (18010317)   495025.95
3761396.41   105.45604 (18010317)
        495045.95   3761396.41   104.36136 (18010317)   495065.95
3761396.41   101.77322 (18010317)
        495085.95   3761396.41   94.94878 (18010317)   495105.95
3761396.41   83.93621 (18010317)
        495125.95   3761396.41   78.15854 (18010317)   495145.95
3761396.41   74.99756 (18010317)
        495165.95   3761396.41   71.55596 (23092203)   495185.95
3761396.41   70.02955 (23092203)
        495205.95   3761396.41   69.26634 (23092203)   495225.95
3761396.41   71.74948 (23092203)
        495245.95   3761396.41   75.01214 (23092203)   495265.95
3761396.41   75.30555 (23092203)
        495285.95   3761396.41   77.27524 (18052904)   495305.95
3761396.41   77.44280 (18052904)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SPILL   ***
                                 INCLUDING SOURCE(S):   VOL2   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)

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Y-COORD (M)        CONC     (YYMMDDHH)
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3761436.41   87.76563 (23092203)
        495145.95   3761436.41   81.90505 (23092203)   495165.95
3761436.41   79.47417 (22100602)
        495185.95   3761436.41   78.13944 (22100602)   495205.95
3761436.41   77.22477 (22100602)
        495225.95   3761436.41   78.06298 (22100602)   495245.95
3761436.41   78.94949 (22100602)
        495265.95   3761436.41   78.33667 (22101301)   495285.95
3761436.41   78.72411 (22101301)
        495305.95   3761436.41   79.74371 (22101301)   495325.95
3761436.41   82.35630 (22101301)
        495345.95   3761436.41   85.63384 (22101301)   495365.95
3761436.41   84.67535 (22101301)
        495385.95   3761436.41   83.11032 (22101301)   495405.95
3761436.41   81.53231 (22101301)
        495425.95   3761436.41   79.99444 (22101301)   495445.95
3761436.41   78.39633 (22101301)
        495465.95   3761436.41   76.53109 (22101301)   495485.95
3761436.41   74.54587 (22101301)
        495505.95   3761436.41   72.44336 (22101301)   495525.95
3761436.41   71.12733 (23070706)
        494845.95   3761456.41   147.28293 (18010317)   494945.95
3761456.41   119.54732 (23092203)
        494965.95   3761456.41   118.15945 (23092203)   494985.95
3761456.41   114.38383 (23092203)
        495005.95   3761456.41   108.86949 (23092203)   495025.95
3761456.41   103.73625 (23092203)
        495045.95   3761456.41   100.17258 (22100602)   495065.95
3761456.41   99.47785 (22100602)
        495085.95   3761456.41   97.89148 (22100602)   495105.95
3761456.41   95.84793 (22100602)
        495125.95   3761456.41   92.99182 (22100602)   495145.95
3761456.41   89.50652 (22100602)

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SPILL   ***
                                 INCLUDING SOURCE(S):   VOL2   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
495165.95	3761456.41	85.68948	(22031002)	495185.95	3761456.41	83.58466	(22031002)
495205.95	3761456.41	82.42190	(23120721)	495225.95	3761456.41	82.77708	(23120721)
495245.95	3761456.41	85.36253	(22101301)	495265.95	3761456.41	83.31673	(22101301)
495285.95	3761456.41	81.92391	(22101301)	495305.95	3761456.41	81.62103	(22101301)
495325.95	3761456.41	82.78389	(22101301)	495345.95	3761456.41	84.11372	(22101301)
495365.95	3761456.41	81.72291	(22101007)	495385.95	3761456.41	80.77045	(22101007)
495405.95	3761456.41	80.01594	(22101007)	495425.95	3761456.41	79.55147	(22101007)
495445.95	3761456.41	79.28806	(22101007)	495465.95	3761456.41	78.06279	(22101007)
495485.95	3761456.41	76.84869	(22101007)	495505.95	3761456.41	75.75042	(22101007)
495525.95	3761456.41	74.70778	(22101007)	494865.95	3761476.41	138.01127	(23092203)
494885.95	3761476.41	133.92644	(23092203)	494905.95	3761476.41	127.89046	(23092203)
494925.95	3761476.41	121.36488	(23092203)	494945.95	3761476.41	119.31881	(22100602)
494965.95	3761476.41	117.61591	(22100602)	494985.95	3761476.41	115.19043	(22100602)
495005.95	3761476.41	111.29405	(22100602)	495025.95	3761476.41	108.16621	(22100602)
495045.95	3761476.41	106.02181	(23120721)	495065.95	3761476.41	105.16721	(23120721)
495085.95	3761476.41	103.59242	(23120721)	495105.95	3761476.41	101.82406	(23120721)
495125.95	3761476.41	99.62499	(23120721)	495145.95	3761476.41	96.93438	(23120721)
495165.95	3761476.41	93.87259	(23120721)	495185.95	3761476.41	91.43405	(23120721)
495205.95	3761476.41	89.23766	(23120721)	495225.95	3761476.41	87.59929	(23120721)
495245.95	3761476.41	85.87342	(23120721)	495265.95	3761476.41	83.71559	(22101007)
495285.95	3761476.41	82.97343	(22101007)	495305.95	3761476.41	83.29680	(22101007)
495325.95	3761476.41	84.96156	(22101007)	495345.95	3761476.41	86.90444	(22101007)
495365.95	3761476.41	84.82553	(22101007)	495385.95			

3761476.41   82.71457 (22101007)
        495405.95   3761476.41   81.00392 (22101007)   495425.95
3761476.41   79.75691 (22101007)
        495445.95   3761476.41   78.86142 (22101007)   495465.95
3761476.41   76.55277 (22101007)
        495485.95   3761476.41   74.38826 (22101007)   495505.95
3761476.41   72.50011 (22101007)
        495525.95   3761476.41   70.80528 (22101007)   494865.95
3761496.41   140.36396 (22100602)
        494885.95   3761496.41   136.88573 (23120721)   494905.95
3761496.41   134.71194 (23120721)
        494925.95   3761496.41   132.50614 (23120721)   494945.95
3761496.41   130.08583 (23120721)
        494965.95   3761496.41   127.35870 (23120721)   494985.95
3761496.41   124.26971 (23120721)
        495005.95   3761496.41   120.09468 (23120721)   495025.95
3761496.41   116.86292 (23120721)
        495045.95   3761496.41   113.90714 (23120721)   495065.95
3761496.41   110.79090 (23120721)
        495085.95   3761496.41   107.21894 (23120721)   495105.95
3761496.41   103.21009 (23120721)
        495125.95   3761496.41   99.33549 (23120721)   495145.95
3761496.41   95.45784 (23120721)
        495165.95   3761496.41   91.51981 (23120721)   495185.95
3761496.41   90.36377 (22101007)
        495205.95   3761496.41   89.32323 (22101007)   495225.95
3761496.41   88.21185 (22101007)
        495245.95   3761496.41   86.74312 (22101007)   495265.95
3761496.41   84.36937 (22101007)
        495285.95   3761496.41   82.73998 (22101007)   495305.95
3761496.41   81.60963 (22101007)
        495325.95   3761496.41   81.10723 (22101007)   495345.95
3761496.41   80.57239 (22101007)
        495365.95   3761496.41   77.61622 (22101007)   495385.95
3761496.41   75.66687 (21070905)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SPILL   ***
                                 INCLUDING SOURCE(S):   VOL2   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF VARIOUS IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
495405.95	3761496.41	75.16163	(21070905)	495425.95	3761496.41	75.03305	(21070905)
495445.95	3761496.41	75.19935	(21070905)	495465.95	3761496.41	74.09363	(21070905)
495485.95	3761496.41	73.06055	(21070905)	495505.95	3761496.41	72.25152	(21070905)
495525.95	3761496.41	71.64515	(21070905)	494865.95	3761516.41	155.94341	(23120721)
494885.95	3761516.41	150.54751	(23120721)	494905.95	3761516.41	143.41700	(23120721)
494925.95	3761516.41	137.68193	(23120721)	494945.95	3761516.41	132.26580	(23120721)
494965.95	3761516.41	126.76023	(23120721)	494985.95	3761516.41	121.11563	(23120721)
495005.95	3761516.41	114.47830	(23120721)	495025.95	3761516.41	110.04368	(22091124)
495045.95	3761516.41	106.83535	(22091124)	495065.95	3761516.41	103.69242	(22091124)
495085.95	3761516.41	100.66728	(21020518)	495105.95	3761516.41	98.17293	(21020518)
495125.95	3761516.41	95.85300	(21020518)	495145.95	3761516.41	94.08238	(18040602)
495165.95	3761516.41	92.39159	(18040602)	495185.95	3761516.41	91.29891	(18040602)
495205.95	3761516.41	90.25127	(18040602)	495225.95	3761516.41	89.24564	(21070905)
495245.95	3761516.41	88.52541	(21070905)	495265.95	3761516.41	87.50721	(21070905)
495285.95	3761516.41	86.83937	(21070905)	495305.95	3761516.41	86.41765	(21070905)
495325.95	3761516.41	86.18741	(21070905)	495345.95	3761516.41	85.89775	(21070905)
495365.95	3761516.41	84.31899	(21070905)	495385.95	3761516.41	82.94008	(21070905)
495405.95	3761516.41	81.93561	(21070905)	495425.95	3761516.41	81.36860	(21070905)
495445.95	3761516.41	81.14096	(21070905)	495465.95	3761516.41	79.33931	(21070905)
495485.95	3761516.41	77.64335	(21070905)	495505.95	3761516.41	76.24731	(21070905)
495525.95	3761516.41	75.13897	(21070905)	494865.95	3761536.41	142.96577	(22091124)
494885.95	3761536.41	136.82929	(22091124)	494905.95			

3761536.41   128.99388 (22091124)
        494925.95   3761536.41   123.18541 (22091124)   494945.95
3761536.41   121.54060 (18040602)
        494965.95   3761536.41   120.41488 (18040602)   494985.95
3761536.41   118.26899 (18040602)
        495005.95   3761536.41   113.57489 (18040602)   495025.95
3761536.41   111.58905 (18040602)
        495045.95   3761536.41   110.97865 (18040602)   495065.95
3761536.41   110.40715 (18040602)
        495085.95   3761536.41   108.34609 (18040602)   495105.95
3761536.41   105.65159 (18040602)
        495125.95   3761536.41   103.27361 (18040602)   495145.95
3761536.41   100.98222 (18040602)
        495165.95   3761536.41   98.54013 (18040602)   495185.95
3761536.41   96.39885 (23102622)
        495205.95   3761536.41   94.64631 (23102622)   495225.95
3761536.41   92.98648 (23102622)
        495245.95   3761536.41   91.34851 (21070905)   495265.95
3761536.41   89.70760 (21070905)
        495285.95   3761536.41   88.33053 (21070905)   495305.95
3761536.41   87.05924 (21070905)
        495325.95   3761536.41   85.81949 (21070905)   495345.95
3761536.41   84.49318 (21070905)
        495365.95   3761536.41   82.71733 (21070905)   495385.95
3761536.41   81.03519 (21070905)
        495405.95   3761536.41   79.61543 (21070905)   495425.95
3761536.41   78.49643 (21070905)
        495445.95   3761536.41   77.63743 (21070905)   495465.95
3761536.41   75.74134 (23102622)
        495485.95   3761536.41   74.13417 (23102622)   495505.95
3761536.41   72.67571 (23102622)
        495525.95   3761536.41   71.36163 (23102622)   494865.95
3761556.41   143.85502 (23102622)
        494885.95   3761556.41   141.36751 (23102622)   494905.95
3761556.41   135.16688 (23102622)
        494925.95   3761556.41   132.11598 (23102622)   494945.95
3761556.41   129.98934 (23102622)

                             *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SPILL   ***
                                INCLUDING SOURCE(S):   VOL2   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS

***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
494965.95	3761556.41	127.51967	(23102622)	494985.95	3761556.41	124.20883	(23102622)
495005.95	3761556.41	119.30678	(23102622)	495025.95	3761556.41	116.68927	(23102622)
495045.95	3761556.41	115.25270	(23102622)	495065.95	3761556.41	113.69899	(23102622)
495085.95	3761556.41	110.56344	(23102622)	495105.95	3761556.41	107.73542	(23102622)
495125.95	3761556.41	105.25638	(23102622)	495145.95	3761556.41	102.80225	(23102622)
495165.95	3761556.41	100.15346	(23102622)	495185.95	3761556.41	97.68086	(23102622)
495205.95	3761556.41	95.33979	(23102622)	495225.95	3761556.41	93.11537	(23102622)
495245.95	3761556.41	90.94027	(23102622)	495265.95	3761556.41	88.80052	(23102622)
495285.95	3761556.41	86.82325	(23102622)	495305.95	3761556.41	84.92572	(23102622)
495325.95	3761556.41	83.11100	(23102622)	495345.95	3761556.41	81.35122	(23102622)
495365.95	3761556.41	79.63681	(23102622)	495385.95	3761556.41	77.90580	(23102622)
495405.95	3761556.41	76.26167	(23102622)	495425.95	3761556.41	74.73971	(23102622)
495445.95	3761556.41	73.31939	(23102622)	495465.95	3761556.41	71.67183	(23102622)
495485.95	3761556.41	70.01511	(23102622)	495505.95	3761556.41	68.63937	(19022622)
495525.95	3761556.41	67.84212	(19022622)	494845.95	3761576.41	143.25071	(22011318)
494865.95	3761576.41	137.14951	(22011318)	494885.95	3761576.41	131.33286	(22011318)
494905.95	3761576.41	125.02440	(22011318)	494925.95	3761576.41	120.14251	(23102622)
494945.95	3761576.41	117.77903	(23102622)	494965.95	3761576.41	115.14836	(23102622)
494985.95	3761576.41	111.69097	(23102622)	495005.95	3761576.41	107.73936	(23102622)
495025.95	3761576.41	105.13447	(23102622)	495045.95	3761576.41	103.16443	(23102622)
495065.95	3761576.41	101.02153	(23102622)	495085.95			

3761576.41   97.73400 (23102622)
        495105.95   3761576.41   95.03250 (23102622)   495125.95
3761576.41   92.71974 (23102622)
        495145.95   3761576.41   90.46361 (23102622)   495165.95
3761576.41   88.17994 (23102622)
        495185.95   3761576.41   86.10532 (21123120)   495205.95
3761576.41   84.72987 (21123120)
        495225.95   3761576.41   83.64867 (19022622)   495245.95
3761576.41   82.56537 (19022622)
        495265.95   3761576.41   81.33915 (19022622)   495285.95
3761576.41   80.12535 (19022622)
        495305.95   3761576.41   78.80903 (19022622)   495325.95
3761576.41   77.51672 (19022622)
        495345.95   3761576.41   76.30854 (19022622)   495365.95
3761576.41   75.24560 (19022622)
        495385.95   3761576.41   74.11461 (19022622)   495405.95
3761576.41   72.96509 (19022622)
        495425.95   3761576.41   71.92165 (19022622)   495445.95
3761576.41   71.21350 (19022622)
        495465.95   3761576.41   70.20755 (19022622)   495485.95
3761576.41   69.06349 (19022622)
        495505.95   3761576.41   68.07022 (19022622)   495525.95
3761576.41   67.26071 (19022622)
        494845.95   3761596.41   126.23898 (21020218)   494865.95
3761596.41   122.82036 (21020218)
        494885.95   3761596.41   119.35050 (21020218)   494905.95
3761596.41   113.81493 (21020218)
        494925.95   3761596.41   110.28601 (22120519)   494945.95
3761596.41   108.54325 (22120519)
        494965.95   3761596.41   106.58821 (22120519)   494985.95
3761596.41   103.61504 (22120519)
        495005.95   3761596.41   101.05234 (19120820)   495025.95
3761596.41   99.72312 (19120820)
        495045.95   3761596.41   98.89616 (19120820)   495065.95
3761596.41   97.55149 (19120820)
        495085.95   3761596.41   94.49418 (19120820)   495105.95
3761596.41   92.52741 (19120820)
        495125.95   3761596.41   91.00639 (19120820)   495145.95
3761596.41   89.60310 (19120820)

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SPILL   ***
                                INCLUDING SOURCE(S):   VOL2   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
495165.95	3761596.41	88.09124	(19120820)	495185.95	3761596.41	86.55207	(19120820)
495205.95	3761596.41	84.97355	(19120820)	495225.95	3761596.41	83.39119	(19120820)
495245.95	3761596.41	81.79269	(19120820)	495265.95	3761596.41	80.15465	(19120820)
495285.95	3761596.41	78.46122	(19120820)	495305.95	3761596.41	76.70284	(19120820)
495325.95	3761596.41	74.98268	(19120820)	495345.95	3761596.41	73.33804	(19120820)
495365.95	3761596.41	71.81512	(19120820)	495385.95	3761596.41	70.34259	(19120820)
495405.95	3761596.41	68.84516	(19120820)	495425.95	3761596.41	67.58419	(21123120)
495445.95	3761596.41	66.51177	(21123120)	495465.95	3761596.41	65.49305	(21123120)
495485.95	3761596.41	64.45243	(21123120)	495505.95	3761596.41	63.48905	(21123120)
495525.95	3761596.41	62.61211	(21123120)	494845.95	3761616.41	126.18924	(18020918)
494865.95	3761616.41	121.97001	(18020918)	494885.95	3761616.41	117.46081	(18020918)
494905.95	3761616.41	113.18584	(21020218)	494925.95	3761616.41	110.28143	(21020218)
494945.95	3761616.41	108.59358	(21020218)	494965.95	3761616.41	106.98451	(22120520)
494985.95	3761616.41	104.69815	(22120520)	495005.95	3761616.41	102.70672	(22120520)
495025.95	3761616.41	101.45205	(22120520)	495045.95	3761616.41	100.28602	(22120520)
495065.95	3761616.41	98.62590	(22120520)	495085.95	3761616.41	95.59575	(22120520)
495105.95	3761616.41	93.54729	(22120520)	495125.95	3761616.41	91.83041	(22120520)
495145.95	3761616.41	90.22069	(22120520)	495165.95	3761616.41	88.58584	(22120520)
495185.95	3761616.41	86.81683	(22120520)	495205.95	3761616.41	85.05690	(22120520)
495225.95	3761616.41	83.48365	(19120820)	495245.95			

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3761616.41       82.26395  (19120820)
        495265.95   3761616.41       81.06602  (19120820)                495285.95
3761616.41       79.73981  (19120820)
        495305.95   3761616.41       78.38660  (19120820)                495325.95
3761616.41       77.00379  (19120820)
        495345.95   3761616.41       75.62770  (19120820)                495365.95
3761616.41       74.30752  (19120820)
        495385.95   3761616.41       73.13724  (19120820)                495405.95
3761616.41       71.93283  (19120820)
        495425.95   3761616.41       70.64901  (19120820)                495445.95
3761616.41       69.22385  (19120820)
        495465.95   3761616.41       68.01090  (19120820)                495485.95
3761616.41       66.83534  (19120820)
        495505.95   3761616.41       65.74316  (19120820)                495525.95
3761616.41       64.71753  (19120820)
        494845.95   3761636.41      125.76930  (18020918)                494865.95
3761636.41      124.30285  (18020918)
        494885.95   3761636.41      121.95910  (18020918)                494905.95
3761636.41      117.33821  (18020918)
        494925.95   3761636.41      114.15257  (18020918)                494945.95
3761636.41      111.90352  (18020918)
        494965.95   3761636.41      109.19702  (18020918)                494985.95
3761636.41      105.51725  (22122923)
        495005.95   3761636.41      102.49632  (22122923)                495025.95
3761636.41       99.86688  (22122923)
        495045.95   3761636.41       97.87445  (19122417)                495065.95
3761636.41       96.54916  (19122417)
        495085.95   3761636.41       93.98028  (19122417)                495105.95
3761636.41       92.11376  (19122417)
        495125.95   3761636.41       90.72688  (19122417)                495145.95
3761636.41       89.35308  (19122417)
        495165.95   3761636.41       87.65534  (19122417)                495185.95
3761636.41       86.10010  (21021618)
        495205.95   3761636.41       84.72536  (21021618)                495225.95
3761636.41       83.28722  (21021618)
        495245.95   3761636.41       81.86893  (22120520)                495265.95
3761636.41       80.62338  (22120520)
        495285.95   3761636.41       79.32262  (22120520)                495305.95
3761636.41       77.95221  (22120520)
        495325.95   3761636.41       76.53014  (22120520)                495345.95
3761636.41       75.10352  (22120520)
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                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
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VALUES FOR SOURCE GROUP: SPILL   ***
                                INCLUDING SOURCE(S):   VOL2   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
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3761656.41       71.17987  (22120817)
        495425.95   3761656.41       70.37283  (22120817)                495445.95
3761656.41       69.40492  (22120817)
        495465.95   3761656.41       67.91572  (22120817)                495485.95
3761656.41       66.55246  (22120817)
        495505.95   3761656.41       65.34079  (22120817)                495525.95
3761656.41       64.16785  (22120817)
        494845.95   3761676.41      123.64395  (19022819)                494865.95
3761676.41      122.32618  (19022819)
        494885.95   3761676.41      119.30670  (19022819)                494905.95
3761676.41      114.04625  (19022819)
        494925.95   3761676.41      111.25376  (19122419)                494945.95
3761676.41      108.74387  (19122419)
        494965.95   3761676.41      105.55880  (19021703)                494985.95
3761676.41      102.05486  (19021703)
        495005.95   3761676.41       98.82172  (19021703)                495025.95
3761676.41       96.36069  (23020619)
        495045.95   3761676.41       96.44393  (23020619)                495065.95
3761676.41       95.89215  (23020619)
        495085.95   3761676.41       93.93037  (23020619)                495105.95
3761676.41       92.59274  (23020619)
        495125.95   3761676.41       91.55389  (23020619)                495145.95
3761676.41       90.31344  (23020619)
        495165.95   3761676.41       88.59484  (23020619)                495185.95
3761676.41       86.57188  (23020619)
        495205.95   3761676.41       84.35174  (23020619)                495225.95
3761676.41       82.52744  (23022204)
        495245.95   3761676.41       80.72098  (22122923)                495265.95
3761676.41       79.29551  (22122923)
        495285.95   3761676.41       78.11432  (19021524)                495305.95
3761676.41       77.15318  (19021524)
        495325.95   3761676.41       76.05278  (19021524)                495345.95
3761676.41       74.81643  (19021524)
        495365.95   3761676.41       73.65746  (23120117)                495385.95
3761676.41       72.62795  (23120117)
        495405.95   3761676.41       71.70394  (23120117)                495425.95
3761676.41       70.92963  (23120117)
        495445.95   3761676.41       70.32778  (23120117)                495465.95
3761676.41       69.11676  (23120117)
        495485.95   3761676.41       67.84255  (23120117)                495505.95
3761676.41       66.60289  (23120117)
        495525.95   3761676.41       65.40127  (23120117)                494845.95
3761696.41      124.48280  (18011919)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                       ***        08:18:30

                                  PAGE 233
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SPILL ***
INCLUDING SOURCE(S): VOL2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
494865.95	3761696.41	121.78060	(18021718)	494885.95	3761696.41	118.72467	(18021718)
494905.95	3761696.41	113.54479	(18021718)	494925.95	3761696.41	109.12608	(18021718)
494945.95	3761696.41	108.19272	(19022819)	494965.95	3761696.41	106.33981	(19022819)
494985.95	3761696.41	103.11599	(19022819)	495005.95	3761696.41	100.63236	(19122419)
495025.95	3761696.41	98.71878	(19122419)	495045.95	3761696.41	96.26083	(19122419)
495065.95	3761696.41	93.13677	(19122419)	495085.95	3761696.41	90.16914	(19021703)
495105.95	3761696.41	88.91056	(23121820)	495125.95	3761696.41	88.48734	(23121820)
495145.95	3761696.41	87.73357	(23121820)	495165.95	3761696.41	86.53268	(23121820)
495185.95	3761696.41	85.65532	(23020619)	495205.95	3761696.41	84.96547	(23020619)
495225.95	3761696.41	84.11596	(23020619)	495245.95	3761696.41	82.96939	(23020619)
495265.95	3761696.41	81.41261	(23020619)	495285.95	3761696.41	79.93385	(23020619)
495305.95	3761696.41	78.42859	(23020619)	495325.95	3761696.41	76.76542	(23020619)
495345.95	3761696.41	74.90505	(23020619)	495365.95	3761696.41	72.90024	(23020619)
495385.95	3761696.41	70.92926	(19021524)	495405.95	3761696.41	70.22903	(19021524)
495425.95	3761696.41	69.60478	(19021524)	495445.95	3761696.41	69.22046	(19021524)
495465.95	3761696.41	68.56803	(19021524)	495485.95	3761696.41	67.52802	(19021524)
495505.95	3761696.41	66.34951	(19021524)	495525.95	3761696.41	65.16522	(19021524)
494845.95	3761716.41	122.81198	(22021918)	494865.95			

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3761716.41      118.47340  (22022023)
        494885.95   3761716.41      114.68334  (18011919)                494905.95
3761716.41      112.56776  (18011919)
        494925.95   3761716.41      110.70510  (18011919)                494945.95
3761716.41      108.03579  (18011919)
        494965.95   3761716.41      106.45526  (19021522)                494985.95
3761716.41      103.43178  (19021522)
        495005.95   3761716.41      100.15229  (19021522)                495025.95
3761716.41       96.76839  (19021522)
        495045.95   3761716.41       95.47160  (19022819)                495065.95
3761716.41       94.05223  (22123004)
        495085.95   3761716.41       91.82504  (22123004)                495105.95
3761716.41       89.88594  (22123004)
        495125.95   3761716.41       87.91654  (23123019)                495145.95
3761716.41       85.56173  (23123019)
        495165.95   3761716.41       83.31333  (21121817)                495185.95
3761716.41       82.64119  (21121817)
        495205.95   3761716.41       82.73229  (23121820)                495225.95
3761716.41       82.73969  (23121820)
        495245.95   3761716.41       82.22857  (23121820)                495265.95
3761716.41       80.71073  (23121820)
        495285.95   3761716.41       79.32978  (23121820)                495305.95
3761716.41       78.08129  (23121820)
        495325.95   3761716.41       76.62114  (23121820)                495345.95
3761716.41       75.31262  (23020619)
        495365.95   3761716.41       74.55978  (23020619)                495385.95
3761716.41       73.51356  (23020619)
        495405.95   3761716.41       72.24951  (23020619)                495425.95
3761716.41       70.90783  (23020619)
        495445.95   3761716.41       69.66151  (23020619)                495465.95
3761716.41       68.53689  (23020619)
        495485.95   3761716.41       66.91240  (23020619)                495505.95
3761716.41       65.09258  (23020619)
        495525.95   3761716.41       63.23359  (23020619)                495545.95
3761716.41       62.54524  (19021524)
        494845.95   3761736.41      118.81160  (22021918)                494865.95
3761736.41      119.67010  (22021918)
        494885.95   3761736.41      117.30399  (22021918)                494905.95
3761736.41      112.69144  (22021918)
        494925.95   3761736.41      108.94169  (22022023)                494945.95
3761736.41      105.88415  (22022023)
        494965.95   3761736.41      104.95224  (21021918)                494985.95
3761736.41      102.76822  (18121117)
        495005.95   3761736.41      100.65853  (18121117)                495025.95
3761736.41       99.16784  (19021522)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                      ***        08:18:30
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SPILL ***
INCLUDING SOURCE(S): VOL2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
495045.95	3761736.41	97.91834	(19021522)	495065.95	3761736.41	95.44065	(19021522)
495085.95	3761736.41	92.08024	(19021522)	495105.95	3761736.41	88.72657	(22011802)
495125.95	3761736.41	88.33933	(22123004)	495145.95	3761736.41	87.69860	(22123004)
495165.95	3761736.41	86.50336	(22123004)	495185.95	3761736.41	84.70206	(23123019)
495205.95	3761736.41	83.46246	(23123019)	495225.95	3761736.41	82.15210	(23123019)
495245.95	3761736.41	80.29145	(23123019)	495265.95	3761736.41	78.08624	(21121817)
495285.95	3761736.41	77.34390	(21121817)	495305.95	3761736.41	76.72544	(21121817)
495325.95	3761736.41	75.92336	(21121817)	495345.95	3761736.41	75.23286	(23121820)
495365.95	3761736.41	74.75417	(23121820)	495385.95	3761736.41	74.08412	(23121820)
495405.95	3761736.41	72.96713	(23121820)	495425.95	3761736.41	71.53717	(23121820)
495445.95	3761736.41	70.07823	(23121820)	495465.95	3761736.41	69.07109	(23121820)
495485.95	3761736.41	67.44547	(23121820)	495505.95	3761736.41	66.36227	(23020619)
495525.95	3761736.41	65.34008	(23020619)	495545.95	3761736.41	64.25509	(23020619)
494845.95	3761756.41	117.50143	(21011919)	494865.95	3761756.41	115.33042	(21011919)
494885.95	3761756.41	110.31127	(21011919)	494905.95	3761756.41	108.85312	(22021918)
494925.95	3761756.41	109.77163	(22021918)	494945.95	3761756.41	109.18079	(22021918)
494965.95	3761756.41	106.50740	(22021918)	494985.95			

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3761756.41      102.11761  (22022023)
        495005.95   3761756.41       99.23545  (21021918)                495025.95
3761756.41       99.32761  (21021918)
        495045.95   3761756.41       97.97315  (21021918)                495065.95
3761756.41       95.20782  (21021918)
        495085.95   3761756.41       91.44319  (21021918)                495105.95
3761756.41       90.52838  (19021522)
        495125.95   3761756.41       89.29503  (19021522)                495145.95
3761756.41       87.63351  (22011802)
        495165.95   3761756.41       85.47139  (22011802)                495185.95
3761756.41       82.40079  (22011802)
        495205.95   3761756.41       81.74328  (22123004)                495225.95
3761756.41       81.60911  (22123004)
        495245.95   3761756.41       81.00606  (22123004)                495265.95
3761756.41       79.53288  (23123019)
        495285.95   3761756.41       78.14707  (23123019)                495305.95
3761756.41       76.71728  (23123019)
        495325.95   3761756.41       74.98099  (23123019)                495345.95
3761756.41       72.87124  (23123019)
        495365.95   3761756.41       71.78951  (21121817)                495385.95
3761756.41       71.82109  (21121817)
        495405.95   3761756.41       71.39802  (21121817)                495425.95
3761756.41       70.59626  (21121817)
        495445.95   3761756.41       69.68373  (21121817)                495465.95
3761756.41       69.11649  (23121820)
        495485.95   3761756.41       68.53758  (23121820)                495505.95
3761756.41       67.65232  (23121820)
        495525.95   3761756.41       66.57074  (23121820)                495545.95
3761756.41       65.42919  (23121820)
        495565.95   3761756.41       64.11204  (23121820)                494845.95
3761776.41      113.40330  (22022221)
        494865.95   3761776.41      112.05860  (22122718)                494885.95
3761776.41      109.77794  (22122718)
        494905.95   3761776.41      108.01425  (18021420)                494925.95
3761776.41      105.76202  (18021420)
        494945.95   3761776.41      101.68894  (18021420)                494965.95
3761776.41      103.17252  (22021918)
        494985.95   3761776.41      103.26682  (22021918)                495005.95
3761776.41      102.09277  (22021918)
        495025.95   3761776.41       99.43173  (22021918)                495045.95
3761776.41       95.87392  (22022023)
        495065.95   3761776.41       93.85309  (21021918)                495085.95
3761776.41       93.53718  (21021918)
        495105.95   3761776.41       92.69610  (21021918)                495125.95
3761776.41       90.98711  (21021918)
        495145.95   3761776.41       88.34858  (21021918)                495165.95
3761776.41       86.39108  (21010906)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SPILL ***
INCLUDING SOURCE(S): VOL2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
495185.95	3761776.41	84.30600	(21010906)	495205.95	3761776.41	82.34016	(22011802)
495225.95	3761776.41	80.83597	(22011802)	495245.95	3761776.41	78.96500	(22011802)
495265.95	3761776.41	76.26869	(22011802)	495285.95	3761776.41	75.24681	(22123004)
495305.95	3761776.41	75.05959	(22123004)	495325.95	3761776.41	74.48258	(22123004)
495345.95	3761776.41	73.79401	(23123019)	495365.95	3761776.41	73.12329	(23123019)
495385.95	3761776.41	72.18132	(23123019)	495405.95	3761776.41	70.81450	(23123019)
495425.95	3761776.41	69.12879	(23123019)	495445.95	3761776.41	67.30990	(23123019)
495465.95	3761776.41	66.18950	(21121817)	495485.95	3761776.41	66.11800	(21121817)
495505.95	3761776.41	65.80655	(21121817)	495525.95	3761776.41	65.29763	(21121817)
495545.95	3761776.41	64.69531	(21121817)	495565.95	3761776.41	63.98094	(21121817)
494845.95	3761796.41	116.74567	(19061019)	494865.95	3761796.41	111.34489	(19011206)
494885.95	3761796.41	107.37907	(19011206)	494905.95	3761796.41	106.81183	(22122718)
494925.95	3761796.41	105.95396	(22122718)	494945.95	3761796.41	104.42716	(18021420)
494965.95	3761796.41	103.20101	(18021420)	494985.95	3761796.41	99.86941	(18021420)
495005.95	3761796.41	98.12374	(23021318)	495025.95	3761796.41	97.81622	(22021918)
495045.95	3761796.41	97.80658	(22021918)	495065.95			

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3761796.41       96.38430  (22021918)
        495085.95   3761796.41       93.66042  (22021918)                495105.95
3761796.41       90.32754  (22022023)
        495125.95   3761796.41       89.73285  (19020618)                495145.95
3761796.41       89.45826  (21021918)
        495165.95   3761796.41       88.65149  (21021918)                495185.95
3761796.41       86.54094  (21021918)
        495205.95   3761796.41       83.72960  (21021918)                495225.95
3761796.41       80.99822  (21010906)
        495245.95   3761796.41       80.00282  (21010906)                495265.95
3761796.41       78.20878  (21010906)
        495285.95   3761796.41       76.04967  (22011802)                495305.95
3761796.41       74.64677  (22011802)
        495325.95   3761796.41       72.88079  (22011802)                495345.95
3761796.41       70.75312  (22011802)
        495365.95   3761796.41       69.45127  (22123004)                495385.95
3761796.41       69.46080  (22123004)
        495405.95   3761796.41       69.10131  (22123004)                495425.95
3761796.41       68.68790  (23123019)
        495445.95   3761796.41       68.18584  (23123019)                495465.95
3761796.41       67.41557  (23123019)
        495485.95   3761796.41       66.39545  (23123019)                495505.95
3761796.41       65.14522  (23123019)
        495525.95   3761796.41       63.68566  (23123019)                495545.95
3761796.41       62.05703  (23123019)
        495565.95   3761796.41       61.03914  (21121817)                494965.95
3761816.41      101.57842  (22122718)
        494985.95   3761816.41       99.58445  (18021420)                495005.95
3761816.41       99.21295  (18021420)
        495025.95   3761816.41       96.89337  (18021420)                495045.95
3761816.41       93.72033  (22011017)
        495065.95   3761816.41       93.85975  (23021318)                495085.95
3761816.41       92.62456  (23021318)
        495105.95   3761816.41       92.03949  (22021918)                495125.95
3761816.41       90.74382  (22021918)
        495145.95   3761816.41       88.24242  (22021918)                495165.95
3761816.41       84.95017  (22022020)
        495185.95   3761816.41       84.46178  (19020618)                495205.95
3761816.41       83.45141  (19020618)
        495225.95   3761816.41       82.83393  (21021918)                495245.95
3761816.41       81.62558  (21021918)
        495265.95   3761816.41       79.61058  (21021918)                495285.95
3761816.41       77.02655  (21021918)
        495305.95   3761816.41       75.81097  (21010906)                495325.95
3761816.41       74.69285  (21010906)
        495345.95   3761816.41       73.15600  (21010906)                495365.95
3761816.41       71.15672  (21010906)
        495385.95   3761816.41       69.47931  (22011802)                495405.95
3761816.41       67.80328  (22011802)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                             *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SPILL   ***
                                INCLUDING SOURCE(S):   VOL2   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                       ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 - - -

3761856.41 82.46010 (23021318)
495225.95 3761856.41 81.09484 (18021819) 495385.95
3761856.41 71.64181 (21021918)
495405.95 3761856.41 69.83180 (21021918) 495425.95
3761856.41 67.64385 (21021918)
495445.95 3761856.41 66.92127 (21010906) 495465.95
3761856.41 66.21706 (21010906)
495485.95 3761856.41 65.11032 (21010906) 495505.95
3761856.41 63.67138 (21010906)
495525.95 3761856.41 62.41288 (22120717) 495545.95
3761856.41 61.52205 (22120717)
495565.95 3761856.41 60.30543 (22120717) 495125.95
3761876.41 87.15470 (19120407)
495145.95 3761876.41 86.92119 (19120407) 495165.95
3761876.41 85.02104 (19120407)
495185.95 3761876.41 82.42294 (22011017) 495205.95
3761876.41 81.62282 (22022518)
495225.95 3761876.41 80.90753 (22022518) 495385.95
3761876.41 69.83201 (19020618)
495405.95 3761876.41 69.00958 (19020618) 495425.95
3761876.41 68.25119 (21021918)
495445.95 3761876.41 67.39435 (21021918) 495465.95
3761876.41 66.14473 (21021918)
495485.95 3761876.41 64.75642 (18021419) 495505.95
3761876.41 63.12408 (21010906)
495525.95 3761876.41 62.86123 (21010906) 495545.95
3761876.41 62.30890 (21010906)
495565.95 3761876.41 61.39716 (21010906) 495125.95
3761896.41 87.81488 (23123018)
495145.95 3761896.41 85.98408 (23123018) 495165.95
3761896.41 82.86647 (19120407)
495185.95 3761896.41 82.79076 (19120407) 495205.95
3761896.41 81.65843 (19120407)
495225.95 3761896.41 79.26458 (19120407) 495385.95
3761896.41 69.93617 (22022020)
495405.95 3761896.41 68.27526 (22022020) 495425.95
3761896.41 66.23524 (22022020)
495445.95 3761896.41 65.40019 (19020618) 495465.95
3761896.41 64.99846 (19020618)
495485.95 3761896.41 64.23097 (21021918) 495505.95
3761896.41 63.74151 (18021419)
495525.95 3761896.41 63.22614 (18021419) 495545.95
3761896.41 62.45443 (18021419)
495565.95 3761896.41 61.29388 (18021419) 495585.95
3761896.41 59.82642 (21010906)
495125.95 3761916.41 81.94745 (23123018) 495145.95
3761916.41 83.88255 (23123018)
495165.95 3761916.41 84.14148 (23123018) 495185.95
3761916.41 82.36099 (23123018)
495205.95 3761916.41 79.51540 (23123018) 495225.95

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SPILL   ***
                                 INCLUDING SOURCE(S):   VOL2   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        495385.95   3761916.41   69.60891 (21020818)   495405.95
3761916.41   67.85529 (21020818)
        495425.95   3761916.41   66.73434 (22022020)   495445.95
3761916.41   66.04943 (22022020)
        495465.95   3761916.41   64.81180 (22022020)   495485.95
3761916.41   63.06286 (22022020)
        495505.95   3761916.41   61.77493 (19020618)   495525.95
3761916.41   61.68927 (19020618)
        495545.95   3761916.41   61.19394 (18021419)   495565.95
3761916.41   61.46485 (18021419)
        495585.95   3761916.41   61.07562 (18021419)   495125.95
3761936.41   78.26928 (23011703)
        495145.95   3761936.41   78.61726 (19011206)   495165.95
3761936.41   78.11305 (22022220)
        495185.95   3761936.41   79.60662 (23123018)   495205.95
3761936.41   80.21927 (23123018)
        495225.95   3761936.41   79.16276 (23123018)   495145.95
3761956.41   79.18701 (23011703)
        495165.95   3761956.41   75.22547 (23011703)   495185.95
3761956.41   74.65099 (19011206)
        495205.95   3761956.41   74.78886 (22022220)   495225.95
3761956.41   75.77094 (23123018)
        495145.95   3761976.41   79.60717 (23122217)   495165.95
3761976.41   78.41042 (23011703)
        495185.95   3761976.41   75.73899 (23011703)   495205.95
3761976.41   71.91533 (23011703)
        495225.95   3761976.41   71.22743 (19011206)   495145.95

```
3761996.41       78.83862  (23123020)
        495165.95   3761996.41       77.76456  (23010506)                495185.95
3761996.41       76.19062  (23122217)
        495205.95   3761996.41       75.28468  (23011703)                495225.95
3761996.41       72.93769  (23011703)
        495145.95   3762016.41       74.96847  (23123020)                495165.95
3762016.41       76.25609  (23123020)
        495185.95   3762016.41       75.56655  (23010506)                495205.95
3762016.41       74.85053  (23122217)
        495225.95   3762016.41       73.48147  (23011703)                495145.95
3762036.41       66.55459  (22112517)
        495165.95   3762036.41       70.15702  (23123020)                495185.95
3762036.41       72.68587  (23123020)
        495205.95   3762036.41       73.50969  (23123020)                495225.95
3762036.41       73.46684  (23010506)
        495145.95   3762056.41       69.51297  (19022107)                495165.95
3762056.41       65.61869  (19022107)
        495185.95   3762056.41       65.09925  (23093001)                495205.95
3762056.41       68.60182  (23123020)
        495225.95   3762056.41       70.62099  (23123020)                494031.10
3761757.45      125.38559  (23022717)
        494022.49   3761743.26      133.53285  (23022717)                494020.46
3761734.14      136.73461  (23022717)
        494013.36   3761724.00      134.71610  (23022717)                494002.72
3761712.34      126.14225  (23022717)
        493991.57   3761703.22      114.60380  (23022717)                493980.42
3761692.58      100.15246  (23022717)
        493969.78   3761686.49       88.73307  (23022717)                493957.61
3761681.43       77.60348  (23022717)
        493943.93   3761673.82       64.58902  (23022717)                493926.19
3761672.81       63.04386  (19011516)
        493913.51   3761671.29       62.29085  (19011516)                493899.83
3761669.77       61.03936  (19011516)
        493832.42   3761639.36       56.32500  (23022418)                493822.79
3761647.47       54.42615  (23022418)
        493811.13   3761658.11       51.34272  (23022418)                493809.61
3761669.26       48.25238  (23022418)
        493817.72   3761682.44       46.64332  (23020202)                493833.43
3761689.53       47.80636  (23012123)
        493853.71   3761695.11       48.67446  (23012123)                493871.45
3761693.08       50.95740  (23010921)
        493888.17   3761693.08       55.38653  (23010921)                493905.91
3761693.59       61.59431  (23022717)
        493920.61   3761694.60       68.62934  (23022717)                493939.36
3761698.15       80.10467  (23022717)
        493959.64   3761706.77       96.62035  (23022717)                493975.35
3761717.41      110.90664  (23022717)
        493983.46   3761726.03      117.90100  (23022717)                493991.06
3761738.19      122.11103  (23022717)
        494001.20   3761754.41      120.73792  (23022717)                493984.47
```

3761753.40   116.01494 (23022717)
        493980.42   3761746.81   116.28074 (23022717)   493970.79
3761734.64   112.55232 (23022717)

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SPILL   ***
                                  INCLUDING SOURCE(S):   VOL2   ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        493953.56   3761728.06   102.67084 (23022717)   493937.34
3761717.41   90.21935 (23022717)
        493921.12   3761715.38   81.27864 (23022717)   493906.93
3761711.33   72.63746 (23022717)
        493887.16   3761711.33   64.42553 (23022717)   493870.43
3761711.33   58.15622 (23022717)
        493857.76   3761710.82   54.72445 (23010921)   493843.06
3761709.81   51.02983 (23010921)
        493829.38   3761709.81   48.02298 (23010921)   493806.57
3761701.19   43.90718 (23012123)
        493799.47   3761683.96   44.88402 (23020202)   493797.45
3761663.18   48.94253 (23022418)
        493779.71   3761668.25   46.28676 (23022418)   493775.14
3761687.51   42.39337 (23020202)
        493782.75   3761700.18   42.11540 (23012123)   493793.39
3761716.90   43.09009 (23010921)
        493809.10   3761730.59   49.76136 (23010921)   493821.27
3761732.11   52.24887 (23010921)
        493843.57   3761730.59   58.15517 (23022717)   493874.99
3761733.63   70.35664 (23022717)
        493883.61   3761733.12   73.41791 (23022717)   493904.90
3761734.64   82.54978 (23022717)
        493928.72   3761736.17   93.28714 (23022717)   493941.39
3761745.80   100.52825 (23022717)
        493954.06   3761758.47   104.74597 (23022717)   493931.76

```
3761757.45       97.28865  (23022717)
        493915.54   3761754.92       91.44155  (23022717)                493903.38
3761754.41       87.01316  (23022717)
        493888.68   3761754.41       81.81302  (23022717)                493872.97
3761753.91       76.28851  (23022717)
        493851.68   3761754.41       69.40100  (23022717)                493835.46
3761751.88       63.55630  (23022717)
        493818.73   3761751.37       58.40621  (23022717)                493742.20
3761651.01       44.86032  (23022418)
        493742.20   3761665.21       43.32739  (23022418)                493742.20
3761680.41       40.09223  (23022418)
        493746.25   3761695.11       38.75727  (23020202)                493750.31
3761708.80       38.36270  (23012123)
        493754.87   3761721.47       37.32455  (23010921)                493757.91
3761732.62       41.07952  (23010921)
        493772.10   3761750.36       46.43918  (23010921)                493760.44
3761749.34       44.65027  (23010921)
        493749.29   3761748.84       42.95857  (23010921)                493730.54
3761748.84       40.21539  (23010921)
        493705.70   3761747.32       36.32840  (23010921)                493712.80
3761770.63       39.75969  (23010921)
        493739.66   3761767.59       43.68752  (23022717)                493757.40
3761769.11       47.98399  (23022717)
        493780.21   3761771.14       53.86882  (23022717)                493801.50
3761770.12       58.97337  (23022717)
        493830.90   3761773.17       67.47041  (23022717)                493850.66
3761773.67       73.03273  (23022717)
        493872.46   3761773.67       79.17009  (23022717)                493893.75
3761776.71       85.01460  (23022717)
        493908.45   3761775.70       88.94926  (23022717)                493926.19
3761779.75       92.47437  (23022717)
        493937.84   3761778.74       95.27928  (23022717)                493952.54
3761780.26       97.52221  (23022717)
        493967.75   3761779.75      100.18168  (23022717)                493975.35
3761783.81       98.62758  (23022717)
        493989.54   3761780.26      102.26310  (23022717)                494000.19
3761781.78      101.62428  (23022717)
        494014.88   3761785.33       98.20114  (23022717)                494027.05
3761785.84       96.67565  (23022717)
        494049.35   3761786.34       92.56812  (23022717)                494066.08
3761786.34       88.41260  (23022717)
        494171.35   3761821.06      177.86169  (22123116)                494176.48
3761840.83      188.02547  (22123116)
        494171.35   3761886.24      145.41602  (22123116)                494831.53
3761814.80      112.00260  (18022619)
        494846.31   3761570.20      142.82495  (22011318)                494859.75
3761515.10      157.02093  (23120721)
        494839.59   3761451.93      146.94253  (18010317)                494863.63
3761459.20      141.92256  (18010317)
        494887.97   3761461.34      130.44774  (18010317)                494935.78
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3761472.98   120.15187 (23092203)
        494961.89   3761422.37   119.94422 (18010317)   494996.53
3761368.08   100.15712 (18011021)
        494991.46   3761326.95   92.39072 (22122901)   495039.84
3761351.14   98.86907 (18011021)

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SPILL   ***
                                 INCLUDING SOURCE(S):   VOL2   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 - - -

VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   VOL1   , VOL2
, L0000001   , L0000002   , L0000003   ,
                  L0000004   , L0000005   , L0000006   , L0000007   , L0000008
, L0000009   , L0000010   , L0000011   ,
                  L0000012   , L0000013   , L0000014   , L0000015   , L0000016
, L0000017   , L0000018   , L0000019   ,
                  L0000020   , L0000021   , L0000022   , L0000023   , L0000024
, L0000025   , L0000026   , . . .   ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        495005.95   3761336.41   363.05846 (22122901)   495145.95
3761336.41   215.93182 (23010216)
        495165.95   3761336.41   215.23233 (18010317)   495185.95
3761336.41   220.56261 (18010317)
        495205.95   3761336.41   220.72256 (18010317)   495225.95
3761336.41   217.55989 (18010317)
        495245.95   3761336.41   213.41791 (18010317)   495265.95
3761336.41   213.96819 (18010317)
        495285.95   3761336.41   248.60055 (18010317)   495305.95
3761336.41   279.93542 (21122224)
        495325.95   3761336.41   290.62818 (21122224)   495345.95
3761336.41   287.41366 (21122224)
        495365.95   3761336.41   289.56823 (21122224)   495385.95
3761336.41   285.48242 (21122224)
        495405.95   3761336.41   277.48402 (21122224)   495005.95
3761356.41   377.47983 (18011021)
        495025.95   3761356.41   380.05191 (18011021)   495045.95
3761356.41   369.57657 (18011021)
        495065.95   3761356.41   342.76392 (18011021)   495085.95
3761356.41   275.49583 (18011021)
        495105.95   3761356.41   242.25562 (18010317)   495125.95
3761356.41   236.35631 (18010317)
        495145.95   3761356.41   240.30503 (18010317)   495165.95
3761356.41   242.05267 (18010317)
        495185.95   3761356.41   240.75267 (18010317)   495205.95
3761356.41   237.30774 (18010317)
        495225.95   3761356.41   235.18716 (18010317)   495245.95
3761356.41   234.45316 (18010317)
        495265.95   3761356.41   233.71793 (18010317)   495285.95
3761356.41   270.90669 (21122224)

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        495305.95   3761356.41      289.19329  (21122224)              495325.95
3761356.41      288.94119  (21122224)
        495345.95   3761356.41      280.52120  (21122224)              495365.95
3761356.41      276.16862  (21122224)
        495385.95   3761356.41      274.71060  (18052904)              495405.95
3761356.41      272.17250  (18052904)
        495425.95   3761356.41      268.49994  (18052904)              495445.95
3761356.41      265.29994  (18052904)
        495005.95   3761376.41      396.54054  (18011021)              495025.95
3761376.41      391.43721  (18011021)
        495045.95   3761376.41      378.79415  (18011021)              495065.95
3761376.41      358.61939  (18011021)
        495085.95   3761376.41      319.93933  (18010317)              495105.95
3761376.41      290.93031  (18010317)
        495125.95   3761376.41      276.45194  (18010317)              495145.95
3761376.41      270.48235  (18010317)
        495165.95   3761376.41      262.43242  (18010317)              495185.95
3761376.41      252.74932  (18010317)
        495205.95   3761376.41      244.85228  (18010317)              495225.95
3761376.41      242.78189  (18010317)
        495245.95   3761376.41      244.93676  (23092203)              495265.95
3761376.41      251.90042  (21122224)
        495285.95   3761376.41      277.86807  (21122224)              495305.95
3761376.41      282.95626  (18052904)
        495325.95   3761376.41      281.75729  (18052904)              495345.95
3761376.41      276.99142  (18052904)
        495365.95   3761376.41      274.12453  (18052904)              495385.95
3761376.41      270.54874  (18052904)
        495405.95   3761376.41      265.83202  (18052904)              495425.95
3761376.41      260.65567  (18052904)
        495445.95   3761376.41      255.57970  (18052904)              495465.95
3761376.41      248.07792  (18052904)
        495485.95   3761376.41      238.69445  (18052904)              494985.95
3761396.41      404.61282  (18011021)
        495005.95   3761396.41      394.17209  (18011021)              495025.95
3761396.41      377.72392  (18010317)
        495045.95   3761396.41      370.34452  (18010317)              495065.95
3761396.41      362.14853  (21122224)
        495085.95   3761396.41      339.57782  (18010317)              495105.95
3761396.41      308.30682  (18010317)
        495125.95   3761396.41      290.83614  (18010317)              495145.95
3761396.41      280.66705  (18010317)
        495165.95   3761396.41      269.25066  (23092203)              495185.95
3761396.41      262.10459  (23092203)
        495205.95   3761396.41      257.33709  (23092203)              495225.95
3761396.41      261.77395  (23092203)
        495245.95   3761396.41      268.20543  (23092203)              495265.95
3761396.41      272.41625  (18052904)
        495285.95   3761396.41      279.49003  (18052904)              495305.95
3761396.41      278.83571  (18052904)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
495325.95	3761396.41	274.89981	(18052904)	495345.95	3761396.41	269.83634	(18052904)
495365.95	3761396.41	262.61945	(18052904)	495385.95	3761396.41	254.91017	(18052904)
495405.95	3761396.41	253.73131	(22101301)	495425.95	3761396.41	254.74931	(22101301)
495445.95	3761396.41	255.88798	(22101301)	495465.95	3761396.41	255.33880	(22101301)
495485.95	3761396.41	253.58811	(22101301)	495505.95	3761396.41	249.91597	(22101301)
494965.95	3761416.41	421.00122	(18010317)	494985.95	3761416.41	409.65094	(18010317)
495005.95	3761416.41	396.56997	(18010317)	495025.95	3761416.41	386.53465	(21122224)
495045.95	3761416.41	380.44874	(21122224)	495065.95	3761416.41	372.95324	(21122224)
495085.95	3761416.41	355.12616	(21122224)	495105.95	3761416.41	320.76718	(21122224)
495125.95	3761416.41	305.68304	(23092203)	495145.95	3761416.41	295.81049	(23092203)
495165.95	3761416.41	285.59886	(23092203)	495185.95			

3761416.41 275.35325 (23092203)
495205.95 3761416.41 267.54144 (23092203) 495225.95
3761416.41 266.63682 (23092203)
495245.95 3761416.41 273.40392 (18052904) 495265.95
3761416.41 270.24058 (18052904)
495285.95 3761416.41 266.97955 (22101301) 495305.95
3761416.41 269.65534 (22101301)
495325.95 3761416.41 273.85905 (22101301) 495345.95
3761416.41 278.85696 (22101301)
495365.95 3761416.41 277.89584 (22101301) 495385.95
3761416.41 276.06613 (22101301)
495405.95 3761416.41 274.09323 (22101301) 495425.95
3761416.41 272.15591 (22101301)
495445.95 3761416.41 270.19817 (22101301) 495465.95
3761416.41 267.01740 (22101301)
495485.95 3761416.41 263.00703 (22101301) 495505.95
3761416.41 258.03827 (22101301)
495525.95 3761416.41 251.87133 (22101301) 494965.95
3761436.41 421.51544 (18010317)
494985.95 3761436.41 413.00270 (21122224) 495005.95
3761436.41 397.82188 (21122224)
495025.95 3761436.41 381.30449 (21122224) 495045.95
3761436.41 367.23487 (21122224)
495065.95 3761436.41 358.16379 (23092203) 495085.95
3761436.41 348.88495 (18052904)
495105.95 3761436.41 332.56003 (18052904) 495125.95
3761436.41 315.11561 (23092203)
495145.95 3761436.41 297.95118 (23092203) 495165.95
3761436.41 287.69330 (22100602)
495185.95 3761436.41 281.19397 (22100602) 495205.95
3761436.41 276.03600 (22100602)
495225.95 3761436.41 277.09148 (22101301) 495245.95
3761436.41 288.67656 (22101301)
495265.95 3761436.41 286.58782 (22101301) 495285.95
3761436.41 285.04533 (22101301)
495305.95 3761436.41 285.36278 (22101301) 495325.95
3761436.41 289.92105 (22101301)
495345.95 3761436.41 295.97103 (22101301) 495365.95
3761436.41 291.52894 (22101301)
495385.95 3761436.41 285.77512 (22101301) 495405.95
3761436.41 280.14322 (22101301)
495425.95 3761436.41 274.74586 (22101301) 495445.95
3761436.41 269.32537 (22101301)
495465.95 3761436.41 263.38006 (22101301) 495485.95
3761436.41 257.25247 (22101301)
495505.95 3761436.41 252.17067 (22101007) 495525.95
3761436.41 249.32954 (22101007)
494845.95 3761456.41 542.85588 (18010317) 494945.95
3761456.41 429.56768 (23092203)
494965.95 3761456.41 420.53998 (23092203) 494985.95

3761456.41   406.95192 (23092203)
        495005.95   3761456.41   389.28559 (23092203)   495025.95
3761456.41   373.05449 (23092203)
        495045.95   3761456.41   358.21920 (23092203)   495065.95
3761456.41   350.28919 (22100602)
        495085.95   3761456.41   342.41093 (22100602)   495105.95
3761456.41   337.48811 (22101301)
        495125.95   3761456.41   329.72855 (22101301)   495145.95
3761456.41   318.57072 (22101301)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                   INCLUDING SOURCE(S):   VOL1   , VOL2
, L0000001   , L0000002   , L0000003   ,
                L0000004   , L0000005   , L0000006   , L0000007   , L0000008
, L0000009   , L0000010   , L0000011   ,
                L0000012   , L0000013   , L0000014   , L0000015   , L0000016
, L0000017   , L0000018   , L0000019   ,
                L0000020   , L0000021   , L0000022   , L0000023   , L0000024
, L0000025   , L0000026   , . . .   ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF VARIOUS IN MICROGRAMS/M**3
                **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        495165.95   3761456.41   305.60482 (22101301)   495185.95
3761456.41   298.43645 (23120721)
        495205.95   3761456.41   293.52145 (22101301)   495225.95
3761456.41   298.38575 (22101301)
        495245.95   3761456.41   303.62357 (22101301)   495265.95
3761456.41   296.25780 (22101301)
        495285.95   3761456.41   290.82867 (22101301)   495305.95
3761456.41   288.48472 (22101301)
        495325.95   3761456.41   290.14261 (22101301)   495345.95
3761456.41   292.22449 (22101301)
        495365.95   3761456.41   287.28191 (22101007)   495385.95
3761456.41   282.65736 (22101007)

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        495405.95   3761456.41      278.67333  (22101007)              495425.95
3761456.41      275.53166  (22101007)
        495445.95   3761456.41      272.96951  (22101007)              495465.95
3761456.41      268.18831  (22101007)
        495485.95   3761456.41      263.54158  (22101007)              495505.95
3761456.41      259.26948  (22101007)
        495525.95   3761456.41      255.21596  (22101007)              494865.95
3761476.41      507.93204  (23092203)
        494885.95   3761476.41      489.35045  (23092203)              494905.95
3761476.41      467.29104  (23092203)
        494925.95   3761476.41      444.96573  (23092203)              494945.95
3761476.41      425.20645  (22100602)
        494965.95   3761476.41      415.17675  (22100602)              494985.95
3761476.41      403.88551  (22100602)
        495005.95   3761476.41      389.56886  (22100602)              495025.95
3761476.41      381.28646  (23120721)
        495045.95   3761476.41      374.72185  (23120721)              495065.95
3761476.41      368.46320  (22101301)
        495085.95   3761476.41      361.99758  (22101301)              495105.95
3761476.41      355.03671  (22101301)
        495125.95   3761476.41      345.59332  (22101301)              495145.95
3761476.41      333.47293  (22101301)
        495165.95   3761476.41      322.69056  (23120721)              495185.95
3761476.41      313.93320  (23120721)
        495205.95   3761476.41      305.93232  (23120721)              495225.95
3761476.41      302.60965  (22101007)
        495245.95   3761476.41      304.47198  (22101007)              495265.95
3761476.41      298.10850  (22101007)
        495285.95   3761476.41      294.02482  (22101007)              495305.95
3761476.41      292.90534  (22101007)
        495325.95   3761476.41      295.36636  (22101007)              495345.95
3761476.41      298.48926  (22101007)
        495365.95   3761476.41      291.53257  (22101007)              495385.95
3761476.41      284.61408  (22101007)
        495405.95   3761476.41      278.81343  (22101007)              495425.95
3761476.41      274.27432  (22101007)
        495445.95   3761476.41      270.66977  (22101007)              495465.95
3761476.41      263.67570  (22101007)
        495485.95   3761476.41      257.10619  (22101007)              495505.95
3761476.41      251.28984  (22101007)
        495525.95   3761476.41      246.01636  (22101007)              494865.95
3761496.41      509.38624  (23120721)
        494885.95   3761496.41      497.04086  (23120721)              494905.95
3761496.41      482.71810  (23120721)
        494925.95   3761496.41      469.06557  (23120721)              494945.95
3761496.41      455.94233  (23120721)
        494965.95   3761496.41      443.25738  (23120721)              494985.95
3761496.41      429.93343  (23120721)
        495005.95   3761496.41      414.70200  (23120721)              495025.95
3761496.41      402.07344  (23120721)
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3761496.41 260.60123 (21070905)
495485.95 3761496.41 256.34388 (21070905) 495505.95
3761496.41 252.63835 (21070905)
495525.95 3761496.41 249.41144 (21070905) 494865.95
3761516.41 552.83048 (23120721)
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3761516.41 504.35730 (23120721)
494925.95 3761516.41 482.95710 (23120721) 494945.95
3761516.41 463.47658 (23120721)
494965.95 3761516.41 444.49142 (23120721) 494985.95
3761516.41 425.55118 (23120721)
495005.95 3761516.41 404.75813 (23120721) 495025.95
3761516.41 387.67123 (23120721)
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3761516.41 366.54058 (18040602)
495085.95 3761516.41 360.75148 (18040602) 495105.95
3761516.41 352.77325 (18040602)
495125.95 3761516.41 345.42798 (18040602) 495145.95
3761516.41 338.29522 (18040602)
495165.95 3761516.41 330.87524 (18040602) 495185.95
3761516.41 326.06635 (21070905)
495205.95 3761516.41 321.63054 (21070905) 495225.95
3761516.41 317.40097 (21070905)
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3761516.41 308.14853 (21070905)
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3761516.41 300.98660 (21070905)
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3761516.41 295.51813 (21070905)
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3761516.41 284.44604 (21070905)
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3761516.41 276.93265 (21070905)
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3761516.41 268.51967 (21070905)
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3761516.41 258.09782 (21070905)
495525.95 3761516.41 253.89848 (21070905) 494865.95
3761536.41 530.87641 (23120721)
494885.95 3761536.41 501.51001 (23120721) 494905.95
3761536.41 470.81660 (23120721)
494925.95 3761536.41 453.77890 (18040602) 494945.95
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3761536.41 425.33748 (18040602)
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3761536.41 398.61748 (18040602)
495045.95 3761536.41 393.13073 (18040602) 495065.95
3761536.41 388.31712 (18040602)
495085.95 3761536.41 379.36914 (18040602) 495105.95

3761536.41   369.12176 (18040602)
        495125.95   3761536.41   360.13598 (21070905)   495145.95
3761536.41   352.25423 (21070905)
        495165.95   3761536.41   343.93522 (21070905)   495185.95
3761536.41   336.53498 (21070905)
        495205.95   3761536.41   329.90569 (21070905)   495225.95
3761536.41   323.65044 (21070905)
        495245.95   3761536.41   317.47389 (21070905)   495265.95
3761536.41   311.23965 (21070905)
        495285.95   3761536.41   305.78956 (21070905)   495305.95
3761536.41   300.70421 (21070905)
        495325.95   3761536.41   295.78337 (21070905)   495345.95
3761536.41   290.72862 (21070905)
        495365.95   3761536.41   284.63479 (21070905)   495385.95
3761536.41   278.84817 (21070905)
        495405.95   3761536.41   273.77101 (21070905)   495425.95
3761536.41   269.45806 (21070905)
        495445.95   3761536.41   265.72248 (21070905)   495465.95
3761536.41   259.58182 (21070905)
        495485.95   3761536.41   253.57197 (21070905)   495505.95
3761536.41   248.16276 (21070905)
        495525.95   3761536.41   243.33272 (21070905)   494865.95
3761556.41   534.39710 (23102622)
        494885.95   3761556.41   517.16162 (23102622)   494905.95
3761556.41   492.58047 (23102622)
        494925.95   3761556.41   476.97364 (23102622)   494945.95
3761556.41   465.31085 (23102622)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                   INCLUDING SOURCE(S):   VOL1   , VOL2
, L0000001   , L0000002   , L0000003   ,
                 L0000004   , L0000005   , L0000006   , L0000007   , L0000008
, L0000009   , L0000010   , L0000011   ,
                 L0000012   , L0000013   , L0000014   , L0000015   , L0000016
, L0000017   , L0000018   , L0000019   ,
                 L0000020   , L0000021   , L0000022   , L0000023   , L0000024
, L0000025   , L0000026   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF VARIOUS IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
494965.95	3761556.41	452.77099	(23102622)	494985.95	3761556.41	438.73597	(23102622)
495005.95	3761556.41	421.24672	(23102622)	495025.95	3761556.41	409.99801	(23102622)
495045.95	3761556.41	402.68920	(23102622)	495065.95	3761556.41	395.03140	(23102622)
495085.95	3761556.41	383.46643	(23102622)	495105.95	3761556.41	372.92638	(23102622)
495125.95	3761556.41	363.47915	(23102622)	495145.95	3761556.41	354.29550	(23102622)
495165.95	3761556.41	344.82621	(23102622)	495185.95	3761556.41	335.96295	(23102622)
495205.95	3761556.41	327.57881	(23102622)	495225.95	3761556.41	319.62228	(23102622)
495245.95	3761556.41	311.92048	(23102622)	495265.95	3761556.41	304.43176	(23102622)
495285.95	3761556.41	297.44160	(23102622)	495305.95	3761556.41	290.74459	(23102622)
495325.95	3761556.41	284.33687	(23102622)	495345.95	3761556.41	278.14775	(23102622)
495365.95	3761556.41	272.14355	(23102622)	495385.95	3761556.41	266.18518	(23102622)
495405.95	3761556.41	260.47979	(23102622)	495425.95	3761556.41	255.06084	(23102622)
495445.95	3761556.41	249.80517	(23102622)	495465.95	3761556.41	244.78365	(19022622)
495485.95	3761556.41	240.40877	(19022622)	495505.95	3761556.41	236.46571	(19022622)
495525.95	3761556.41	233.25196	(19022622)	494845.95	3761576.41	530.01464	(23102622)
494865.95	3761576.41	511.03366	(23102622)	494885.95	3761576.41	492.54996	(23102622)
494905.95	3761576.41	468.93959	(23102622)	494925.95	3761576.41	452.68842	(23102622)
494945.95	3761576.41	440.50330	(23102622)	494965.95	3761576.41	427.58485	(23102622)
494985.95	3761576.41	413.00369	(23102622)	495005.95	3761576.41	397.58264	(23102622)
495025.95	3761576.41	386.31990	(23102622)	495045.95	3761576.41	378.04900	(23102622)
495065.95	3761576.41	368.75588	(23102622)	495085.95	3761576.41	356.55410	(23102622)
495105.95	3761576.41	346.20616	(23102622)	495125.95	3761576.41	337.13466	(23102622)

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        495145.95   3761576.41      328.39645  (23102622)               495165.95
3761576.41      319.74525  (23102622)
        495185.95   3761576.41      311.44388  (23102622)               495205.95
3761576.41      303.46487  (23102622)
        495225.95   3761576.41      295.72585  (23102622)               495245.95
3761576.41      289.23270  (19022622)
        495265.95   3761576.41      284.19633  (19022622)               495285.95
3761576.41      279.28838  (19022622)
        495305.95   3761576.41      274.20549  (19022622)               495325.95
3761576.41      269.27399  (19022622)
        495345.95   3761576.41      264.63577  (19022622)               495365.95
3761576.41      260.43545  (19022622)
        495385.95   3761576.41      256.12074  (19022622)               495405.95
3761576.41      251.81703  (19022622)
        495425.95   3761576.41      247.83331  (19022622)               495445.95
3761576.41      244.72058  (19022622)
        495465.95   3761576.41      240.91362  (19022622)               495485.95
3761576.41      236.82088  (19022622)
        495505.95   3761576.41      233.13355  (19022622)               495525.95
3761576.41      229.91006  (19022622)
        494845.95   3761596.41      472.96790  (21020218)               494865.95
3761596.41      453.77838  (21020218)
        494885.95   3761596.41      436.25399  (21020218)               494905.95
3761596.41      415.95049  (22120520)
        494925.95   3761596.41      402.91260  (22120520)               494945.95
3761596.41      394.51326  (19120820)
        494965.95   3761596.41      386.80168  (19120820)               494985.95
3761596.41      375.65374  (19120820)
        495005.95   3761596.41      364.91134  (19120820)               495025.95
3761596.41      357.71853  (19120820)
        495045.95   3761596.41      352.95542  (19120820)               495065.95
3761596.41      346.17899  (19120820)
        495085.95   3761596.41      335.28334  (19120820)               495105.95
3761596.41      327.43461  (19120820)
        495125.95   3761596.41      320.93123  (19120820)               495145.95
3761596.41      314.89966  (19120820)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                      ***        08:18:30

                                  PAGE 245
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     VOL1        , VOL2
, L0000001    , L0000002    , L0000003    ,
                 L0000004    , L0000005    , L0000006    , L0000007    , L0000008
, L0000009    , L0000010    , L0000011    ,
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L0000012 , L0000013 , L0000014 , L0000015 , L0000016
, L0000017 , L0000018 , L0000019 ,
L0000020 , L0000021 , L0000022 , L0000023 , L0000024
, L0000025 , L0000026 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF VARIOUS IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
495165.95	3761596.41	308.74705	(19120820)	495185.95	3761596.41	302.66606	(19120820)
495205.95	3761596.41	296.61703	(19120820)	495225.95	3761596.41	290.67850	(19120820)
495245.95	3761596.41	284.81239	(19120820)	495265.95	3761596.41	278.95730	(19120820)
495285.95	3761596.41	273.07462	(19120820)	495305.95	3761596.41	267.14157	(19120820)
495325.95	3761596.41	261.38911	(19120820)	495345.95	3761596.41	255.89463	(19120820)
495365.95	3761596.41	250.75191	(19120820)	495385.95	3761596.41	245.78997	(19120820)
495405.95	3761596.41	240.84247	(19120820)	495425.95	3761596.41	235.99517	(19120820)
495445.95	3761596.41	231.44836	(19120820)	495465.95	3761596.41	227.07211	(19120820)
495485.95	3761596.41	222.73391	(19120820)	495505.95	3761596.41	218.58322	(19120820)
495525.95	3761596.41	215.13428	(23091001)	494845.95	3761616.41	475.37170	(18020918)
494865.95	3761616.41	454.81016	(18020918)	494885.95	3761616.41	435.36789	(18020918)
494905.95	3761616.41	413.17587	(22120520)	494925.95	3761616.41	401.37014	(22120520)
494945.95	3761616.41	394.86903	(22120520)	494965.95	3761616.41	387.46325	(22120520)
494985.95	3761616.41	376.54389	(22120520)	495005.95	3761616.41	366.93475	(22120520)
495025.95	3761616.41	360.03654	(22120520)	495045.95	3761616.41	354.09448	(22120520)
495065.95	3761616.41	346.51168	(22120520)	495085.95	3761616.41	335.72309	(22120520)
495105.95	3761616.41	327.69555	(22120520)	495125.95	3761616.41	320.72950	(22120520)
495145.95	3761616.41	314.22357	(22120520)	495165.95			

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3761616.41      307.82372  (22120520)
        495185.95   3761616.41      301.24901  (22120520)                495205.95
3761616.41      294.84054  (22120520)
        495225.95   3761616.41      288.49978  (22120520)                495245.95
3761616.41      283.11704  (19120820)
        495265.95   3761616.41      278.14836  (19120820)                495285.95
3761616.41      272.98400  (19120820)
        495305.95   3761616.41      267.86274  (19120820)                495325.95
3761616.41      262.76832  (19120820)
        495345.95   3761616.41      257.78040  (19120820)                495365.95
3761616.41      253.00247  (19120820)
        495385.95   3761616.41      248.62357  (19120820)                495405.95
3761616.41      244.23416  (19120820)
        495425.95   3761616.41      239.75013  (19120820)                495445.95
3761616.41      235.06397  (19120820)
        495465.95   3761616.41      230.86753  (19120820)                495485.95
3761616.41      226.80307  (19120820)
        495505.95   3761616.41      222.93950  (19120820)                495525.95
3761616.41      219.21606  (19120820)
        494845.95   3761636.41      470.74953  (18020918)                494865.95
3761636.41      456.24058  (18020918)
        494885.95   3761636.41      441.40842  (18020918)                494905.95
3761636.41      422.36706  (18020918)
        494925.95   3761636.41      408.60547  (22122923)                494945.95
3761636.41      399.60893  (22122923)
        494965.95   3761636.41      389.73584  (22122923)                494985.95
3761636.41      376.52983  (22122923)
        495005.95   3761636.41      365.02089  (22122923)                495025.95
3761636.41      355.32149  (22122923)
        495045.95   3761636.41      347.65417  (19122417)                495065.95
3761636.41      341.01913  (19122417)
        495085.95   3761636.41      331.48388  (19122417)                495105.95
3761636.41      324.04043  (19122417)
        495125.95   3761636.41      318.06451  (19122417)                495145.95
3761636.41      312.32387  (19122417)
        495165.95   3761636.41      305.95252  (19122417)                495185.95
3761636.41      299.44250  (19122417)
        495205.95   3761636.41      293.09881  (21021618)                495225.95
3761636.41      287.53978  (21021618)
        495245.95   3761636.41      282.13676  (21021618)                495265.95
3761636.41      276.78539  (21021618)
        495285.95   3761636.41      271.40687  (21021618)                495305.95
3761636.41      265.95656  (21021618)
        495325.95   3761636.41      260.47829  (21021618)                495345.95
3761636.41      255.09341  (21021618)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                       ***        08:18:30
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , L0000001 , L0000002 , L0000003 ,
L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 ,
L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 ,
L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
495365.95	3761636.41	250.11190	(22120520)	495385.95	3761636.41	245.52089	(22120520)
495405.95	3761636.41	241.18723	(22120520)	495425.95	3761636.41	236.86121	(22120520)
495445.95	3761636.41	232.70894	(22120123)	495465.95	3761636.41	228.76104	(22120123)
495485.95	3761636.41	225.28322	(22120123)	495505.95	3761636.41	222.32860	(22120123)
495525.95	3761636.41	219.62561	(22120123)	494845.95	3761656.41	461.84539	(19122419)
494865.95	3761656.41	443.74817	(19122419)	494885.95	3761656.41	425.92759	(19021703)
494905.95	3761656.41	405.50231	(19021703)	494925.95	3761656.41	394.03094	(22011821)
494945.95	3761656.41	387.93175	(23020619)	494965.95	3761656.41	381.68930	(23020619)
494985.95	3761656.41	370.59108	(23020619)	495005.95	3761656.41	361.78479	(23020619)
495025.95	3761656.41	354.36632	(23020619)	495045.95	3761656.41	347.88448	(23020619)
495065.95	3761656.41	339.86944	(23020619)	495085.95	3761656.41	330.12445	(22122923)
495105.95	3761656.41	322.54807	(22122923)	495125.95	3761656.41	316.25650	(22122923)
495145.95	3761656.41	309.96426	(22122923)	495165.95	3761656.41	304.42801	(23120117)

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        495185.95   3761656.41      299.89598  (23120117)               495205.95
3761656.41      294.97790  (23120117)
        495225.95   3761656.41      289.93958  (23120117)               495245.95
3761656.41      284.92140  (23120117)
        495265.95   3761656.41      279.87411  (23120117)               495285.95
3761656.41      274.93264  (23120117)
        495305.95   3761656.41      269.78264  (23120117)               495325.95
3761656.41      264.52257  (23120117)
        495345.95   3761656.41      259.23010  (23120117)               495365.95
3761656.41      253.84353  (23120117)
        495385.95   3761656.41      248.76187  (23120117)               495405.95
3761656.41      244.68351  (22120817)
        495425.95   3761656.41      241.59497  (22120817)               495445.95
3761656.41      238.16657  (22120817)
        495465.95   3761656.41      233.59992  (22120817)               495485.95
3761656.41      229.38586  (22120817)
        495505.95   3761656.41      225.56575  (22120817)               495525.95
3761656.41      221.86844  (22120817)
        494845.95   3761676.41      459.16526  (18021718)               494865.95
3761676.41      444.18154  (19022819)
        494885.95   3761676.41      429.27714  (19022819)               494905.95
3761676.41      410.35364  (19022819)
        494925.95   3761676.41      398.59823  (19122419)               494945.95
3761676.41      387.69577  (19122419)
        494965.95   3761676.41      374.97214  (19122419)               494985.95
3761676.41      359.60972  (19122419)
        495005.95   3761676.41      349.84547  (23020619)               495025.95
3761676.41      347.64498  (23020619)
        495045.95   3761676.41      344.41339  (23020619)               495065.95
3761676.41      339.63028  (23020619)
        495085.95   3761676.41      331.55881  (23020619)               495105.95
3761676.41      325.48844  (23020619)
        495125.95   3761676.41      320.51065  (23020619)               495145.95
3761676.41      315.29502  (23020619)
        495165.95   3761676.41      309.11894  (23020619)               495185.95
3761676.41      302.41120  (23020619)
        495205.95   3761676.41      295.42344  (23020619)               495225.95
3761676.41      288.23481  (23020619)
        495245.95   3761676.41      281.00797  (23020619)               495265.95
3761676.41      273.85530  (23020619)
        495285.95   3761676.41      269.00506  (19021524)               495305.95
3761676.41      265.16617  (19021524)
        495325.95   3761676.41      261.10225  (19021524)               495345.95
3761676.41      256.81766  (19021524)
        495365.95   3761676.41      251.74755  (19021524)               495385.95
3761676.41      247.47705  (23120117)
        495405.95   3761676.41      243.87030  (23120117)               495425.95
3761676.41      240.65939  (23120117)
        495445.95   3761676.41      237.81974  (23120117)               495465.95
3761676.41      233.77742  (23120117)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
494865.95	3761696.41	443.51113	(18121117)	494885.95	3761696.41	425.98655	(19021522)
494905.95	3761696.41	409.98581	(19021522)	494925.95	3761696.41	397.73408	(19021522)
494945.95	3761696.41	385.27038	(19021522)	494965.95	3761696.41	372.13697	(19022819)
494985.95	3761696.41	360.40312	(19022819)	495005.95	3761696.41	351.11592	(19122419)
495025.95	3761696.41	344.60810	(22123004)	495045.95	3761696.41	336.65223	(23123019)
495065.95	3761696.41	328.02640	(23123019)	495085.95	3761696.41	320.43857	(23121820)
495105.95	3761696.41	317.01889	(23121820)	495125.95	3761696.41	313.54073	(23121820)
495145.95	3761696.41	309.53368	(23121820)	495165.95	3761696.41	304.67242	(23121820)
495185.95	3761696.41	299.10197	(23121820)	495205.95			

3761696.41 293.66016 (23121820)
495225.95 3761696.41 289.08919 (23020619) 495245.95
3761696.41 284.49512 (23020619)
495265.95 3761696.41 279.09650 (23020619) 495285.95
3761696.41 274.07126 (23020619)
495305.95 3761696.41 269.13639 (23020619) 495325.95
3761696.41 263.95495 (23020619)
495345.95 3761696.41 258.42989 (23020619) 495365.95
3761696.41 252.67999 (23020619)
495385.95 3761696.41 246.73275 (23020619) 495405.95
3761696.41 240.83095 (23020619)
495425.95 3761696.41 236.82138 (19021524) 495445.95
3761696.41 234.61341 (19021524)
495465.95 3761696.41 231.83102 (19021524) 495485.95
3761696.41 228.28093 (19021524)
495505.95 3761696.41 224.51411 (19021524) 495525.95
3761696.41 220.79552 (19021524)
494845.95 3761716.41 464.30868 (22021918) 494865.95
3761716.41 445.25425 (22021918)
494885.95 3761716.41 422.10828 (22021918) 494905.95
3761716.41 405.34358 (18121117)
494925.95 3761716.41 396.30314 (18121117) 494945.95
3761716.41 386.33862 (18121117)
494965.95 3761716.41 377.55253 (19021522) 494985.95
3761716.41 366.72724 (19021522)
495005.95 3761716.41 356.19913 (19021522) 495025.95
3761716.41 346.81257 (19021522)
495045.95 3761716.41 338.57303 (22123004) 495065.95
3761716.41 333.01021 (22123004)
495085.95 3761716.41 325.14812 (22123004) 495105.95
3761716.41 318.55308 (23123019)
495125.95 3761716.41 312.20967 (23123019) 495145.95
3761716.41 305.01086 (23123019)
495165.95 3761716.41 297.28525 (23123019) 495185.95
3761716.41 290.80422 (23121820)
495205.95 3761716.41 288.97985 (23121820) 495225.95
3761716.41 287.11868 (23121820)
495245.95 3761716.41 284.16324 (23121820) 495265.95
3761716.41 278.88086 (23121820)
495285.95 3761716.41 274.18703 (23121820) 495305.95
3761716.41 270.03874 (23121820)
495325.95 3761716.41 265.53294 (23121820) 495345.95
3761716.41 260.38183 (23121820)
495365.95 3761716.41 255.45807 (23121820) 495385.95
3761716.41 249.87254 (23121820)
495405.95 3761716.41 244.78457 (23020619) 495425.95
3761716.41 240.53648 (23020619)
495445.95 3761716.41 236.54946 (23020619) 495465.95
3761716.41 232.77768 (23020619)
495485.95 3761716.41 228.09809 (23020619) 495505.95

3761716.41   223.14609 (23020619)
        495525.95   3761716.41   218.17913 (23020619)   495545.95
3761716.41   213.22346 (23020619)
        494845.95   3761736.41   445.47481 (22021918)   494865.95
3761736.41   439.83496 (22021918)
        494885.95   3761736.41   428.31189 (22021918)   494905.95
3761736.41   413.13594 (22021918)
        494925.95   3761736.41   399.43655 (22021918)   494945.95
3761736.41   384.39241 (22021918)
        494965.95   3761736.41   378.79836 (21021918)   494985.95
3761736.41   368.50098 (21021918)
        495005.95   3761736.41   359.64969 (21021918)   495025.95
3761736.41   351.11931 (21021918)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                 INCLUDING SOURCE(S):   VOL1   , VOL2
, L0000001   , L0000002   , L0000003   ,
                L0000004   , L0000005   , L0000006   , L0000007   , L0000008
, L0000009   , L0000010   , L0000011   ,
                L0000012   , L0000013   , L0000014   , L0000015   , L0000016
, L0000017   , L0000018   , L0000019   ,
                L0000020   , L0000021   , L0000022   , L0000023   , L0000024
, L0000025   , L0000026   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF VARIOUS IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        495045.95   3761736.41   340.73957 (19021522)   495065.95
3761736.41   332.79066 (22011802)
        495085.95   3761736.41   323.87571 (22011802)   495105.95
3761736.41   315.45227 (22011802)
        495125.95   3761736.41   308.72546 (22123004)   495145.95
3761736.41   305.00153 (22123004)
        495165.95   3761736.41   300.25171 (22123004)   495185.95
3761736.41   294.89777 (23123019)

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        495205.95   3761736.41      290.50327  (23123019)              495225.95
3761736.41      286.24310  (23123019)
        495245.95   3761736.41      280.86687  (23123019)              495265.95
3761736.41      272.41588  (23123019)
        495285.95   3761736.41      267.49648  (21121817)              495305.95
3761736.41      264.59428  (21121817)
        495325.95   3761736.41      261.44104  (21121817)              495345.95
3761736.41      257.69220  (23121820)
        495365.95   3761736.41      255.27255  (23121820)              495385.95
3761736.41      252.52826  (23121820)
        495405.95   3761736.41      248.84576  (23121820)              495425.95
3761736.41      244.55586  (23121820)
        495445.95   3761736.41      240.32008  (23121820)              495465.95
3761736.41      237.20063  (23121820)
        495485.95   3761736.41      232.73872  (23121820)              495505.95
3761736.41      227.64684  (23121820)
        495525.95   3761736.41      222.35425  (23121820)              495545.95
3761736.41      217.10025  (23121820)
        494845.95   3761756.41      436.79973  (22122718)              494865.95
3761756.41      425.22080  (18021420)
        494885.95   3761756.41      409.90644  (18021420)              494905.95
3761756.41      396.39949  (22021918)
        494925.95   3761756.41      394.15317  (22021918)              494945.95
3761756.41      389.25756  (22021918)
        494965.95   3761756.41      380.19818  (22021918)              494985.95
3761756.41      366.45346  (22021918)
        495005.95   3761756.41      353.52346  (21021918)              495025.95
3761756.41      352.29434  (21021918)
        495045.95   3761756.41      346.94049  (21021918)              495065.95
3761756.41      338.64055  (21021918)
        495085.95   3761756.41      328.37286  (21021918)              495105.95
3761756.41      318.20603  (21021918)
        495125.95   3761756.41      310.71109  (21010906)              495145.95
3761756.41      303.91089  (22011802)
        495165.95   3761756.41      297.41279  (22011802)              495185.95
3761756.41      289.03611  (22011802)
        495205.95   3761756.41      282.40178  (22123004)              495225.95
3761756.41      280.28503  (22123004)
        495245.95   3761756.41      278.04932  (23123019)              495265.95
3761756.41      273.31479  (23123019)
        495285.95   3761756.41      268.74250  (23123019)              495305.95
3761756.41      264.32242  (23123019)
        495325.95   3761756.41      259.36987  (23123019)              495345.95
3761756.41      253.69676  (23123019)
        495365.95   3761756.41      248.34314  (23123019)              495385.95
3761756.41      245.82203  (21121817)
        495405.95   3761756.41      243.61767  (21121817)              495425.95
3761756.41      240.64970  (21121817)
        495445.95   3761756.41      237.56698  (21121817)              495465.95
3761756.41      235.14025  (21121817)
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        495485.95   3761756.41      231.70087  (21121817)               495505.95
3761756.41      228.65370  (23121820)
        495525.95   3761756.41      225.31305  (23121820)               495545.95
3761756.41      221.91793  (23121820)
        495565.95   3761756.41      218.21984  (23121820)               494845.95
3761776.41      421.22935  (19061019)
        494865.95   3761776.41      410.05048  (22122718)               494885.95
3761776.41      400.95561  (22122718)
        494905.95   3761776.41      391.86879  (18021420)               494925.95
3761776.41      383.82784  (18021420)
        494945.95   3761776.41      372.43236  (18021420)               494965.95
3761776.41      365.73756  (22021918)
        494985.95   3761776.41      362.71816  (22021918)               495005.95
3761776.41      357.55555  (22021918)
        495025.95   3761776.41      350.47032  (22021918)               495045.95
3761776.41      339.89005  (22021918)
        495065.95   3761776.41      330.09305  (21021918)               495085.95
3761776.41      327.04852  (21021918)
        495105.95   3761776.41      323.30943  (21021918)               495125.95
3761776.41      317.95622  (21021918)
        495145.95   3761776.41      310.78330  (21021918)               495165.95
3761776.41      301.90746  (21021918)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                       ***        08:18:30

                                  PAGE 249
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     VOL1        , VOL2
, L0000001    , L0000002    , L0000003    ,
                L0000004    , L0000005    , L0000006    , L0000007    , L0000008
, L0000009    , L0000010    , L0000011    ,
                L0000012    , L0000013    , L0000014    , L0000015    , L0000016
, L0000017    , L0000018    , L0000019    ,
                L0000020    , L0000021    , L0000022    , L0000023    , L0000024
, L0000025    , L0000026    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF VARIOUS  IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        495185.95   3761776.41      293.28772  (21010906)                495205.95
3761776.41      286.35928  (21010906)
        495225.95   3761776.41      279.43480  (21010906)                495245.95
3761776.41      272.34748  (22011802)
        495265.95   3761776.41      265.24860  (22011802)                495285.95
3761776.41      258.34813  (22123004)
        495305.95   3761776.41      256.36581  (22123004)                495325.95
3761776.41      254.44539  (23123019)
        495345.95   3761776.41      251.96008  (23123019)                495365.95
3761776.41      249.28173  (23123019)
        495385.95   3761776.41      246.13906  (23123019)                495405.95
3761776.41      242.15963  (23123019)
        495425.95   3761776.41      237.58898  (23123019)                495445.95
3761776.41      232.84494  (23123019)
        495465.95   3761776.41      227.79576  (23123019)                495485.95
3761776.41      225.12941  (21121817)
        495505.95   3761776.41      223.36625  (21121817)                495525.95
3761776.41      221.25664  (21121817)
        495545.95   3761776.41      219.03156  (21121817)                495565.95
3761776.41      216.63256  (21121817)
        494845.95   3761796.41      419.03291  (19061019)                494865.95
3761796.41      403.93939  (19011206)
        494885.95   3761796.41      392.70541  (19011206)                494905.95
3761796.41      388.22131  (23123018)
        494925.95   3761796.41      379.85191  (23123018)                494945.95
3761796.41      370.31775  (18021420)
        494965.95   3761796.41      365.24514  (18021420)                494985.95
3761796.41      355.96333  (18021420)
        495005.95   3761796.41      347.84151  (23021318)                495025.95
3761796.41      344.06746  (23021318)
        495045.95   3761796.41      338.61594  (22021918)                495065.95
3761796.41      333.46619  (22021918)
        495085.95   3761796.41      325.81045  (22021918)                495105.95
3761796.41      316.36969  (22021918)
        495125.95   3761796.41      310.29918  (19020618)                495145.95
3761796.41      308.14028  (21021918)
        495165.95   3761796.41      304.64120  (21021918)                495185.95
3761796.41      298.42029  (21021918)
        495205.95   3761796.41      290.92163  (21021918)                495225.95
3761796.41      282.99317  (21021918)
        495245.95   3761796.41      275.30621  (21010906)                495265.95
3761796.41      270.21051  (21010906)
        495285.95   3761796.41      264.39828  (21010906)                495305.95
3761796.41      258.03262  (21010906)
        495325.95   3761796.41      251.13087  (21010906)                495345.95
3761796.41      244.53717  (22011802)
        495365.95   3761796.41      238.49646  (18100723)                495385.95
3761796.41      236.17091  (23123019)
        495405.95   3761796.41      235.06459  (23123019)                495425.95
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3761796.41   233.36498 (23123019)
        495445.95   3761796.41   231.18543 (23123019)   495465.95
3761796.41   228.53303 (23123019)
        495485.95   3761796.41   225.44333 (23123019)   495505.95
3761796.41   221.95278 (23123019)
        495525.95   3761796.41   218.09827 (23123019)   495545.95
3761796.41   213.95581 (23123019)
        495565.95   3761796.41   209.65599 (23123019)   494965.95
3761816.41   363.74800 (23123018)
        494985.95   3761816.41   353.10628 (23123018)   495005.95
3761816.41   349.08203 (19120407)
        495025.95   3761816.41   341.71555 (19120407)   495045.95
3761816.41   331.12309 (19120407)
        495065.95   3761816.41   327.17952 (23021318)   495085.95
3761816.41   323.02479 (23021318)
        495105.95   3761816.41   316.56639 (23021318)   495125.95
3761816.41   311.14601 (18021819)
        495145.95   3761816.41   305.13645 (18021819)   495165.95
3761816.41   296.88660 (18021819)
        495185.95   3761816.41   289.55251 (19020618)   495205.95
3761816.41   285.80342 (19020618)
        495225.95   3761816.41   282.98005 (21021918)   495245.95
3761816.41   279.09804 (21021918)
        495265.95   3761816.41   273.64914 (21021918)   495285.95
3761816.41   267.16070 (21021918)
        495305.95   3761816.41   259.85499 (21021918)   495325.95
3761816.41   255.37325 (21010906)
        495345.95   3761816.41   251.19323 (21010906)   495365.95
3761816.41   246.14902 (21010906)
        495385.95   3761816.41   240.25460 (21010906)   495405.95
3761816.41   233.71694 (21010906)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                 INCLUDING SOURCE(S):   VOL1   , VOL2
, L0000001   , L0000002   , L0000003   ,
                L0000004   , L0000005   , L0000006   , L0000007   , L0000008
, L0000009   , L0000010   , L0000011   ,
                L0000012   , L0000013   , L0000014   , L0000015   , L0000016
, L0000017   , L0000018   , L0000019   ,
                L0000020   , L0000021   , L0000022   , L0000023   , L0000024
, L0000025   , L0000026   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
495425.95	3761816.41	228.68668	(22120717)	495445.95	3761816.41	223.38833	(22120717)
495465.95	3761816.41	219.39210	(23011922)	495485.95	3761816.41	217.93766	(23011922)
495505.95	3761816.41	216.32251	(23123019)	495525.95	3761816.41	214.88676	(23123019)
495545.95	3761816.41	213.00485	(23123019)	495565.95	3761816.41	210.77850	(23123019)
495125.95	3761836.41	308.19040	(23021318)	495145.95	3761836.41	303.79055	(23021318)
495165.95	3761836.41	297.10286	(21020818)	495185.95	3761836.41	290.37685	(18021819)
495205.95	3761836.41	284.33622	(18021819)	495225.95	3761836.41	278.57025	(22022020)
495365.95	3761836.41	246.62218	(21021918)	495385.95	3761836.41	241.38063	(21010906)
495405.95	3761836.41	237.82869	(21010906)	495425.95	3761836.41	233.52354	(21010906)
495445.95	3761836.41	228.66414	(21010906)	495465.95	3761836.41	223.34726	(21010906)
495485.95	3761836.41	219.34731	(22120717)	495505.95	3761836.41	215.24102	(22120717)
495525.95	3761836.41	210.73060	(22120717)	495545.95	3761836.41	205.83860	(22120717)
495565.95	3761836.41	204.45254	(23011922)	495125.95	3761856.41	305.92472	(19120407)
495145.95	3761856.41	297.75211	(22011017)	495165.95	3761856.41	294.55256	(22022518)
495185.95	3761856.41	288.76801	(22022518)	495205.95	3761856.41	283.36522	(23021318)
495225.95	3761856.41	278.62268	(21020818)	495385.95	3761856.41	242.60892	(21021918)
495405.95	3761856.41	238.39502	(18021419)	495425.95	3761856.41	233.80980	(18021419)
495445.95	3761856.41	228.63873	(18021419)	495465.95	3761856.41	224.15478	(21010906)
495485.95	3761856.41	221.15041	(21010906)	495505.95	3761856.41	217.54513	(21010906)
495525.95	3761856.41	213.43742	(21010906)	495545.95	3761856.41	210.66747	(22120717)

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        495565.95   3761856.41      207.71643  (22120717)                495125.95
3761876.41      301.83292  (23123018)
        495145.95   3761876.41      297.36387  (19120407)                495165.95
3761876.41      292.65171  (19120407)
        495185.95   3761876.41      284.37827  (19120407)                495205.95
3761876.41      279.27341  (22022518)
        495225.95   3761876.41      277.03296  (22022518)                495385.95
3761876.41      236.56593  (22022020)
        495405.95   3761876.41      233.06843  (19020618)                495425.95
3761876.41      230.26741  (21021918)
        495445.95   3761876.41      228.20561  (18021419)                495465.95
3761876.41      225.73088  (18021419)
        495485.95   3761876.41      222.38174  (18021419)                495505.95
3761876.41      218.40190  (18021419)
        495525.95   3761876.41      213.94029  (18021419)                495545.95
3761876.41      210.04200  (21010906)
        495565.95   3761876.41      207.51425  (21010906)                495125.95
3761896.41      301.36555  (23123018)
        495145.95   3761896.41      297.18792  (23123018)                495165.95
3761896.41      289.64623  (23123018)
        495185.95   3761896.41      281.66034  (19120407)                495205.95
3761896.41      278.65163  (19120407)
        495225.95   3761896.41      273.20021  (19120407)                495385.95
3761896.41      237.41494  (22022020)
        495405.95   3761896.41      233.35679  (22022020)                495425.95
3761896.41      228.67642  (22022020)
        495445.95   3761896.41      223.23303  (22022020)                495465.95
3761896.41      219.15608  (19020618)
        495485.95   3761896.41      217.19723  (18021419)                495505.95
3761896.41      216.22660  (18021419)
        495525.95   3761896.41      214.67234  (18021419)                495545.95
3761896.41      212.69641  (18021419)
        495565.95   3761896.41      209.96388  (18021419)                495585.95
3761896.41      205.92144  (18021419)
        495125.95   3761916.41      283.40059  (23123018)                495145.95
3761916.41      286.80554  (23123018)
        495165.95   3761916.41      286.85828  (23123018)                495185.95
3761916.41      282.71625  (23123018)
        495205.95   3761916.41      276.67595  (23123018)                495225.95
3761916.41      267.78790  (23123018)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                      ***        08:18:30

                                PAGE 251
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
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                                  INCLUDING SOURCE(S):     VOL1        , VOL2
, L0000001    , L0000002    , L0000003    ,
                 L0000004    , L0000005    , L0000006    , L0000007    , L0000008
, L0000009    , L0000010    , L0000011    ,
                 L0000012    , L0000013    , L0000014    , L0000015    , L0000016
, L0000017    , L0000018    , L0000019    ,
                 L0000020    , L0000021    , L0000022    , L0000023    , L0000024
, L0000025    , L0000026    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF VARIOUS  IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        495385.95   3761916.41      235.91025  (21020818)                495405.95
3761916.41      231.80568  (21020818)
        495425.95   3761916.41      226.76467  (21020818)                495445.95
3761916.41      223.90479  (22022020)
        495465.95   3761916.41      220.91164  (22022020)                495485.95
3761916.41      216.96422  (22022020)
        495505.95   3761916.41      212.27048  (22022020)                495525.95
3761916.41      207.24881  (19020618)
        495545.95   3761916.41      206.98769  (18021419)                495565.95
3761916.41      206.99768  (18021419)
        495585.95   3761916.41      205.68426  (18021419)                495125.95
3761936.41      283.05426  (23011703)
        495145.95   3761936.41      271.95788  (23011703)                495165.95
3761936.41      270.21843  (22022220)
        495185.95   3761936.41      271.53419  (23123018)                495205.95
3761936.41      272.40932  (23123018)
        495225.95   3761936.41      269.94123  (23123018)                495145.95
3761956.41      278.69162  (23011703)
        495165.95   3761956.41      271.12034  (23011703)                495185.95
3761956.41      259.43331  (23011703)
        495205.95   3761956.41      257.79712  (22022220)                495225.95
3761956.41      258.89774  (22022220)
        495145.95   3761976.41      277.03629  (23010506)                495165.95
3761976.41      271.62264  (23122217)
        495185.95   3761976.41      266.11183  (23011703)                495205.95
3761976.41      258.91399  (23011703)
        495225.95   3761976.41      248.68934  (23011703)                495145.95
3761996.41      270.58457  (23123020)
        495165.95   3761996.41      269.96027  (23010506)                495185.95
3761996.41      265.02516  (23010506)
        495205.95   3761996.41      259.83650  (23011703)                495225.95
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3761996.41      255.61805  (23011703)
        495145.95   3762016.41      256.91712  (23123020)                495165.95
3762016.41      259.97038  (23123020)
        495185.95   3762016.41      260.14115  (23010506)                495205.95
3762016.41      259.42798  (23010506)
        495225.95   3762016.41      254.94536  (23010506)                495145.95
3762036.41      243.58067  (19022107)
        495165.95   3762036.41      242.24017  (23123020)                495185.95
3762036.41      247.77317  (23123020)
        495205.95   3762036.41      249.95756  (23123020)                495225.95
3762036.41      251.84738  (23010506)
        495145.95   3762056.41      247.18284  (19022107)                495165.95
3762056.41      240.53352  (19022107)
        495185.95   3762056.41      230.60218  (19022107)                495205.95
3762056.41      235.00434  (23123020)
        495225.95   3762056.41      239.54048  (23123020)                494031.10
3761757.45      444.47382  (23022717)
        494022.49   3761743.26      459.90246  (23022717)                494020.46
3761734.14      467.69830  (23022717)
        494013.36   3761724.00      462.14207  (23022717)                494002.72
3761712.34      441.69365  (23022717)
        493991.57   3761703.22      414.31258  (23022717)                493980.42
3761692.58      381.19545  (23022717)
        493969.78   3761686.49      353.28655  (23022717)                493957.61
3761681.43      324.84661  (23022717)
        493943.93   3761673.82      291.76530  (23022717)                493926.19
3761672.81      265.50562  (23022717)
        493913.51   3761671.29      247.30475  (23022717)                493899.83
3761669.77      229.35750  (23022717)
        493832.42   3761639.36      183.54283  (23022418)                493822.79
3761647.47      177.92214  (23022418)
        493811.13   3761658.11      169.64439  (23022418)                493809.61
3761669.26      162.80663  (23022418)
        493817.72   3761682.44      169.78732  (23022717)                493833.43
3761689.53      188.97669  (23022717)
        493853.71   3761695.11      212.68152  (23022717)                493871.45
3761693.08      227.92107  (23022717)
        493888.17   3761693.08      245.98044  (23022717)                493905.91
3761693.59      267.68960  (23022717)
        493920.61   3761694.60      288.06673  (23022717)                493939.36
3761698.15      319.21553  (23022717)
        493959.64   3761706.77      360.61511  (23022717)                493975.35
3761717.41      394.77738  (23022717)
        493983.46   3761726.03      410.85139  (23022717)                493991.06
3761738.19      420.14198  (23022717)
        494001.20   3761754.41      418.48663  (23022717)                493984.47
3761753.40      400.51132  (23022717)
        493980.42   3761746.81      400.72516  (23022717)                493970.79
3761734.64      391.61075  (23022717)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
493953.56	3761728.06	365.38296	(23022717)	493937.34	3761717.41	335.55198	(23022717)
493921.12	3761715.38	311.21081	(23022717)	493906.93	3761711.33	288.79128	(23022717)
493887.16	3761711.33	264.83447	(23022717)	493870.43	3761711.33	246.29473	(23022717)
493857.76	3761710.82	232.73950	(23022717)	493843.06	3761709.81	217.64812	(23022717)
493829.38	3761709.81	205.41764	(23022717)	493806.57	3761701.19	179.15778	(23022717)
493799.47	3761683.96	158.56633	(23022717)	493797.45	3761663.18	162.83923	(23022418)
493779.71	3761668.25	155.11163	(23022418)	493775.14	3761687.51	146.40375	(23022717)
493782.75	3761700.18	161.67334	(23022717)	493793.39	3761716.90	182.99388	(23022717)
493809.10	3761730.59	206.01229	(23022717)	493821.27	3761732.11	217.29805	(23022717)
493843.57	3761730.59	236.16801	(23022717)	493874.99	3761733.63	269.92230	(23022717)
493883.61	3761733.12	278.94487	(23022717)	493904.90	3761734.64	304.30736	(23022717)

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        493928.72   3761736.17      334.41685  (23022717)              493941.39
3761745.80      351.87438  (23022717)
        493954.06   3761758.47      362.65494  (23022717)              493931.76
3761757.45      339.00723  (23022717)
        493915.54   3761754.92      321.89260  (23022717)              493903.38
3761754.41      308.93563  (23022717)
        493888.68   3761754.41      293.73192  (23022717)              493872.97
3761753.91      277.93529  (23022717)
        493851.68   3761754.41      257.94515  (23022717)              493835.46
3761751.88      242.22336  (23022717)
        493818.73   3761751.37      227.64797  (23022717)              493742.20
3761651.01      148.28785  (23022418)
        493742.20   3761665.21      144.12670  (23022418)              493742.20
3761680.41      136.77618  (23022418)
        493746.25   3761695.11      136.04296  (23022717)              493750.31
3761708.80      148.43931  (23022717)
        493754.87   3761721.47      160.48620  (23022717)              493757.91
3761732.62      170.30249  (23022717)
        493772.10   3761750.36      191.37822  (23022717)              493760.44
3761749.34      182.77806  (23022717)
        493749.29   3761748.84      175.16613  (23022717)              493730.54
3761748.84      163.56512  (23022717)
        493705.70   3761747.32      148.58246  (23022717)              493712.80
3761770.63      164.40514  (23022717)
        493739.66   3761767.59      178.96412  (23022717)              493757.40
3761769.11      190.95230  (23022717)
        493780.21   3761771.14      207.21616  (23022717)              493801.50
3761770.12      222.19807  (23022717)
        493830.90   3761773.17      245.60754  (23022717)              493850.66
3761773.67      261.70826  (23022717)
        493872.46   3761773.67      279.99489  (23022717)              493893.75
3761776.71      297.44551  (23022717)
        493908.45   3761775.70      310.20968  (23022717)              493926.19
3761779.75      322.48109  (23022717)
        493937.84   3761778.74      332.56439  (23022717)              493952.54
3761780.26      342.39198  (23022717)
        493967.75   3761779.75      354.14443  (23022717)              493975.35
3761783.81      353.21015  (23022717)
        493989.54   3761780.26      367.95722  (23022717)              494000.19
3761781.78      371.26922  (23022717)
        494014.88   3761785.33      370.28372  (23022717)              494027.05
3761785.84      373.08695  (23022717)
        494049.35   3761786.34      375.93796  (23022717)              494066.08
3761786.34      376.04208  (23022717)
        494171.35   3761821.06      584.13583  (22123116)              494176.48
3761840.83      606.73832  (22123116)
        494171.35   3761886.24      504.62457  (22123116)              494831.53
3761814.80      447.30801  (19020521)
        494846.31   3761570.20      542.61397  (23102622)              494859.75
3761515.10      558.49958  (23120721)
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , L0000001 , L0000002 , L0000003 ,
L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 ,
L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 ,
L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
495133.92	3761336.35	222.85427	(23010216)	495229.34	3761325.60	206.72946	(18010317)
495414.80	3761335.01	273.31905	(21122224)	495539.79	3761406.24	244.36303	(22101301)
495545.17	3761697.88	217.08104	(19021524)	495576.08	3761783.89	213.66115	(21121817)
495589.52	3761934.41	197.36210	(18021419)	495387.93	3761934.41	235.26740	(22022518)
495359.70	3761828.24	247.52042	(21010906)	495237.40	3761820.18	279.67266	(21021918)
495237.40	3762072.84	228.74353	(23123020)	495127.20	3762068.81	251.77045	(19022618)
495124.51	3761818.83	310.64350	(18021819)				

*** THE SUMMARY OF MAXIMUM PERIOD (43800 HRS) RESULTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

GROUP ID	NETWORK	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
OUTBOUND	1ST HIGHEST VALUE IS	16.54929	AT (494839.59, 3761451.93, 736.65, 736.65, 0.00)	DC	
	2ND HIGHEST VALUE IS	15.72508	AT (494845.95, 3761456.41, 736.88, 736.88, 0.00)	DC	
	3RD HIGHEST VALUE IS	13.85806	AT (494863.63, 3761459.20, 737.39, 737.39, 0.00)	DC	
	4TH HIGHEST VALUE IS	13.31942	AT (494865.95, 3761476.41, 737.64, 737.64, 0.00)	DC	
	5TH HIGHEST VALUE IS	12.97539	AT (494859.75, 3761515.10, 737.99, 737.99, 0.00)	DC	
	6TH HIGHEST VALUE IS	12.86381	AT (494865.95, 3761496.41, 737.83, 737.83, 0.00)	DC	
	7TH HIGHEST VALUE IS	12.82957	AT (494846.31, 3761570.20, 738.01, 738.01, 0.00)	DC	
	8TH HIGHEST VALUE IS	12.63846	AT (494845.95, 3761576.41, 738.04, 738.04, 0.00)	DC	
	9TH HIGHEST VALUE IS	12.32020	AT (494865.95, 3761516.41, 738.19, 738.19, 0.00)	DC	
	10TH HIGHEST VALUE IS	11.98774	AT (494887.97, 3761461.34, 737.98, 737.98, 0.00)	DC	
INBOUND	1ST HIGHEST VALUE IS	17.89670	AT (494839.59, 3761451.93, 736.65, 736.65, 0.00)	DC	
	2ND HIGHEST VALUE IS	16.83924	AT (494845.95, 3761456.41, 736.88, 736.88, 0.00)	DC	
	3RD HIGHEST VALUE IS	14.69926	AT (494863.63, 3761459.20, 737.39, 737.39, 0.00)	DC	

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         4TH HIGHEST VALUE IS      13.85086 AT (  494865.95,  3761476.41,   737.64,
  737.64,    0.00)  DC
         5TH HIGHEST VALUE IS      13.17154 AT (  494865.95,  3761496.41,   737.83,
  737.83,    0.00)  DC
         6TH HIGHEST VALUE IS      13.14692 AT (  494859.75,  3761515.10,   737.99,
  737.99,    0.00)  DC
         7TH HIGHEST VALUE IS      12.85533 AT (  494846.31,  3761570.20,   738.01,
  738.01,    0.00)  DC
         8TH HIGHEST VALUE IS      12.66875 AT (  494845.95,  3761576.41,   738.04,
  738.04,    0.00)  DC
         9TH HIGHEST VALUE IS      12.60595 AT (  494887.97,  3761461.34,   737.98,
  737.98,    0.00)  DC
        10TH HIGHEST VALUE IS      12.49545 AT (  494865.95,  3761516.41,   738.19,
  738.19,    0.00)  DC

REFUELIN  1ST HIGHEST VALUE IS      10.93929 AT (  494846.31,  3761570.20,   738.01,
  738.01,    0.00)  DC
         2ND HIGHEST VALUE IS      10.89097 AT (  494845.95,  3761576.41,   738.04,
  738.04,    0.00)  DC
         3RD HIGHEST VALUE IS      10.56744 AT (  494845.95,  3761596.41,   738.15,
  738.15,    0.00)  DC
         4TH HIGHEST VALUE IS      10.27457 AT (  494865.95,  3761556.41,   738.53,
  738.53,    0.00)  DC
         5TH HIGHEST VALUE IS      10.23824 AT (  494865.95,  3761536.41,   738.42,
  738.42,    0.00)  DC
         6TH HIGHEST VALUE IS      10.23165 AT (  494859.75,  3761515.10,   737.99,
  737.99,    0.00)  DC
         7TH HIGHEST VALUE IS      10.14034 AT (  494865.95,  3761576.41,   738.59,
  738.59,    0.00)  DC
         8TH HIGHEST VALUE IS      10.12968 AT (  494171.35,  3761821.06,   727.21,
  727.21,    0.00)  DC
         9TH HIGHEST VALUE IS      10.08695 AT (  494845.95,  3761616.41,   738.26,
  738.26,    0.00)  DC
        10TH HIGHEST VALUE IS      10.04282 AT (  494865.95,  3761516.41,   738.19,
  738.19,    0.00)  DC

LOADING   1ST HIGHEST VALUE IS      12.03525 AT (  494846.31,  3761570.20,   738.01,
  738.01,    0.00)  DC
         2ND HIGHEST VALUE IS      12.00451 AT (  494845.95,  3761576.41,   738.04,
  738.04,    0.00)  DC
         3RD HIGHEST VALUE IS      11.73082 AT (  494845.95,  3761596.41,   738.15,
  738.15,    0.00)  DC
         4TH HIGHEST VALUE IS      11.29428 AT (  494845.95,  3761616.41,   738.26,
  738.26,    0.00)  DC
         5TH HIGHEST VALUE IS      11.17448 AT (  494865.95,  3761556.41,   738.53,
  738.53,    0.00)  DC
         6TH HIGHEST VALUE IS      11.13642 AT (  494859.75,  3761515.10,   737.99,
  737.99,    0.00)  DC
         7TH HIGHEST VALUE IS      11.11136 AT (  494865.95,  3761536.41,   738.42,
  738.42,    0.00)  DC
```

*** THE SUMMARY OF MAXIMUM PERIOD (43800
HRS) RESULTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3
**

GROUP ID	NETWORK AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
BREATHIN	1ST HIGHEST VALUE IS	12.03515 AT (494846.31, 3761570.20, 738.01, 738.01, 0.00)	DC	
	2ND HIGHEST VALUE IS	12.00441 AT (494845.95, 3761576.41, 738.04, 738.04, 0.00)	DC	
	3RD HIGHEST VALUE IS	11.73073 AT (494845.95, 3761596.41, 738.15, 738.15, 0.00)	DC	
	4TH HIGHEST VALUE IS	11.29419 AT (494845.95, 3761616.41, 738.26, 738.26, 0.00)	DC	
	5TH HIGHEST VALUE IS	11.17439 AT (494865.95, 3761556.41, 738.53, 738.53, 0.00)	DC	
	6TH HIGHEST VALUE IS	11.13633 AT (494859.75, 3761515.10, 737.99, 737.99, 0.00)	DC	
	7TH HIGHEST VALUE IS	11.11127 AT (494865.95, 3761536.41, 738.42, 738.42, 0.00)	DC	
	8TH HIGHEST VALUE IS	11.08142 AT (494865.95, 3761576.41, 738.59, 738.59, 0.00)	DC	
	9TH HIGHEST VALUE IS	10.90391 AT (494865.95, 3761516.41, 738.19, 738.19, 0.00)	DC	
	10TH HIGHEST VALUE IS	10.83244 AT (494865.95, 3761596.41, 738.67, 738.67, 0.00)	DC	
SPILL	1ST HIGHEST VALUE IS	11.11408 AT (494846.31, 3761570.20, 738.01,		

```
  738.01,    0.00)  DC
         2ND HIGHEST VALUE IS      11.06426 AT (  494845.95,  3761576.41,   738.04,
  738.04,    0.00)  DC
         3RD HIGHEST VALUE IS      10.70733 AT (  494845.95,  3761596.41,   738.15,
  738.15,    0.00)  DC
         4TH HIGHEST VALUE IS      10.44061 AT (  494865.95,  3761556.41,   738.53,
  738.53,    0.00)  DC
         5TH HIGHEST VALUE IS      10.36149 AT (  494865.95,  3761536.41,   738.42,
  738.42,    0.00)  DC
         6TH HIGHEST VALUE IS      10.31344 AT (  494865.95,  3761576.41,   738.59,
  738.59,    0.00)  DC
         7TH HIGHEST VALUE IS      10.28159 AT (  494859.75,  3761515.10,   737.99,
  737.99,    0.00)  DC
         8TH HIGHEST VALUE IS      10.16098 AT (  494845.95,  3761616.41,   738.26,
  738.26,    0.00)  DC
         9TH HIGHEST VALUE IS      10.11244 AT (  494171.35,  3761821.06,   727.21,
  727.21,    0.00)  DC
        10TH HIGHEST VALUE IS      10.10153 AT (  494865.95,  3761516.41,   738.19,
  738.19,    0.00)  DC

ALL       1ST HIGHEST VALUE IS      73.89473 AT (  494839.59,  3761451.93,   736.65,
  736.65,    0.00)  DC
         2ND HIGHEST VALUE IS      71.80868 AT (  494846.31,  3761570.20,   738.01,
  738.01,    0.00)  DC
         3RD HIGHEST VALUE IS      71.79893 AT (  494845.95,  3761456.41,   736.88,
  736.88,    0.00)  DC
         4TH HIGHEST VALUE IS      71.27136 AT (  494845.95,  3761576.41,   738.04,
  738.04,    0.00)  DC
         5TH HIGHEST VALUE IS      68.90831 AT (  494859.75,  3761515.10,   737.99,
  737.99,    0.00)  DC
         6TH HIGHEST VALUE IS      68.55322 AT (  494845.95,  3761596.41,   738.15,
  738.15,    0.00)  DC
         7TH HIGHEST VALUE IS      66.76791 AT (  494865.95,  3761516.41,   738.19,
  738.19,    0.00)  DC
         8TH HIGHEST VALUE IS      66.60725 AT (  494865.95,  3761496.41,   737.83,
  737.83,    0.00)  DC
         9TH HIGHEST VALUE IS      66.39655 AT (  494865.95,  3761536.41,   738.42,
  738.42,    0.00)  DC
        10TH HIGHEST VALUE IS      66.08432 AT (  494863.63,  3761459.20,   737.39,
  737.39,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
↟ *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Sandalwood\Constr ***        12/18/24
 *** AERMET - VERSION  22112 ***   ***
                       ***        08:18:30
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF VARIOUS IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE	CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
OUTBOUND HIGH 1ST HIGH VALUE IS	74.99897	ON	19061019:	AT (494839.59, 3761451.93, 736.65, 736.65, 0.00)	DC	
INBOUND HIGH 1ST HIGH VALUE IS	82.65318	ON	19061019:	AT (494839.59, 3761451.93, 736.65, 736.65, 0.00)	DC	
REFUELIN HIGH 1ST HIGH VALUE IS	154.81081	ON	22123116:	AT (494176.48, 3761840.83, 727.56, 727.56, 0.00)	DC	
LOADING HIGH 1ST HIGH VALUE IS	142.16459	ON	19020521:	AT (494831.53, 3761814.80, 738.91, 738.91, 0.00)	DC	
BREATHIN HIGH 1ST HIGH VALUE IS	142.17208	ON	19020521:	AT (494831.53, 3761814.80, 738.91, 738.91, 0.00)	DC	
SPILL HIGH 1ST HIGH VALUE IS	188.02547	ON	22123116:	AT (494176.48, 3761840.83, 727.56, 727.56, 0.00)	DC	
ALL HIGH 1ST HIGH VALUE IS	606.73832	ON	22123116:	AT (494176.48, 3761840.83, 727.56, 727.56, 0.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            5 Warning Message(s)
 A Total of          511 Informational Message(s)

 A Total of        43800 Hours Were Processed

 A Total of           40 Calm Hours Identified

 A Total of          471 Missing Hours Identified (  1.08 Percent)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 SO W320    1111        VPARM: Input Parameter May Be Out-of-Range for Parameter
   SZINIT
 ME W186    2255       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
 ME W187    2255       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 MX W450   17521       CHKDAT: Record Out of Sequence in Meteorological File at:
 21010101
 MX W450   17521       CHKDAT: Record Out of Sequence in Meteorological File at:
1 year gap

    ***********************************
    *** AERMOD Finishes Successfully ***
    ***********************************
```

HARP Project Summary Report 12/18/2024 2:19:45 PM

PROJECT INFORMATION
HARP Version: 22118
Project Name: SANDALWOOD OPERATIONAL HARP
Project Output Directory: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\Sandalwood\SANDALWOOD OPERATIONAL HARP
HARP Database: NA

FACILITY INFORMATION
Origin
X (m):0
Y (m):0
Zone:1
No. of Sources:0
No. of Buildings:0

EMISSION INVENTORY
No. of Pollutants:14
No. of Background Pollutants:0

Emissions

ScrID	StkID	ProID	PolID	PolAbbrev	Multi	Annual Ems (lbs/yr)	MaxHr Ems (lbs/hr)	MWAF
Inbound	0	0	9901	DieselExhPM	1	3.23	0	1
Outbound	0	0	9901	DieselExhPM	1	3.23	0	1
Loading	0	0	71432	Benzene	1	1.2456	0.000142192	1
Loading	0	0	100414	Ethyl Benzene	1	0.0012129	1.38459E-07	1
Loading	0	0	91203	Naphthalene	1	0.253818493	2.89747E-05	1
Breathing	0	0	71432	Benzene	1	0.25275	2.88527E-05	1
Breathing	0	0	100414	Ethyl Benzene	1	0.000245625	2.80394E-08	1
Breathing	0	0	91203	Naphthalene	1	0.041153682	4.69791E-06	1
Refueling & Hose Permeation	0	0	71432	Benzene	1	2.732853	0.00031197	1
Refueling & Hose Permeation	0	0	100414	Ethyl Benzene	1	0.002658133	3.0344E-07	1
Refueling & Hose Permeation	0	0	91203	Naphthalene	1	0.555465693	6.34093E-05	1

Spillage 0 0 71432 Benzene 1
3.128625 0.000357149 1
Spillage 0 0 100414 Ethyl Benzene 1
0.76935 8.78253E-05 1
Spillage 0 0 91203 Naphthalene 1
0.629354666 7.18441E-05 1

Background
PolID PolAbbrev Conc (ug/m^3) MWAF

Ground level concentration files (\glc\)

100414MAXHR.txt
100414PER.txt
71432MAXHR.txt
71432PER.txt
91203MAXHR.txt
91203PER.txt
9901MAXHR.txt
9901PER.txt

POLLUTANT HEALTH INFORMATION
Health Database: C:\HARP2\Tables\HEALTH17320.mdb
Health Table Version: HEALTH23279
Official: True

PolID PolAbbrev InhCancer OralCancer AcuteREL
InhChronicREL OralChronicREL InhChronic8HRREL

9901 DieselExhPM 1.1 5

71432 Benzene 0.1 27 3
3
100414 Ethyl Benzene 0.0087 2000

91203 Naphthalene 0.12 9

AIR DISPERSION MODELING INFORMATION
Versions used in HARP. All executables were obtained from USEPA's Support Center for Regulatory Atmospheric Modeling website (http://www.epa.gov/scram001/)
AERMOD: 18081
AERMAP: 18081
BPIPPRM: 04274
AERPLOT: 13329

METEOROLOGICAL INFORMATION
Version:

Surface File:
Profile File:
Surface Station:
Upper Station:
On-Site Station:

LIST OF AIR DISPERSION FILES
AERMOD Input File:
AERMOD Output File:
AERMOD Error File:
Plotfile list
_____
Cancer.plt

LIST OF RISK ASSESSMENT FILES
Health risk analysis files (\hra\)
_____
ResidentialCancerRisk.csv
ResidentialCancerRiskSumByRec.csv
ResidentialGLCList.csv
ResidentialHRAInput.hra
ResidentialNCAcuteRisk.csv
ResidentialNCAcuteRiskSumByRec.csv
ResidentialNCChronicRisk.csv
ResidentialNCChronicRiskSumByRec.csv
ResidentialOutput.txt
ResidentialPathwayRec.csv
ResidentialPolDB.csv

Spatial averaging files (\sa\)
_____

HARP2 - HRACalc (dated 22118) 12/18/2024 2:19:25 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 30

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 2
2<9 Years Bin: 0
2<16 Years Bin: 14
16<30 Years Bin: 14
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: True
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: RMP

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Warm

****
HOMEGROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden
Fraction leafy: 0.137
Fraction exposed: 0.137
Fraction protected: 0.137
Fraction root: 0.137

****
TIER 2 SETTINGS
Tier2 not used.

****

Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\Sandalwood\SANDALWOOD OPERATIONAL HARP\hra\ResidentialCancerRisk.csv
Cancer risk total by receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\Sandalwood\SANDALWOOD OPERATIONAL HARP\hra\ResidentialCancerRiskSumByRec.csv
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\Sandalwood\SANDALWOOD OPERATIONAL HARP\hra\ResidentialNCChronicRisk.csv
Chronic risk total by receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\Sandalwood\SANDALWOOD OPERATIONAL HARP\hra\ResidentialNCChronicRiskSumByRec.csv
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\Sandalwood\SANDALWOOD OPERATIONAL HARP\hra\ResidentialNCAcuteRisk.csv
Acute risk total by receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\Sandalwood\SANDALWOOD OPERATIONAL HARP\hra\ResidentialNCAcuteRiskSumByRec.csv

HRA ran successfully

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_R	MMILK_RIS	WATER_RIS	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISK	PIG_RISK	CHICKEN_F	EGG_RISK
1	ALL		495006	3761336	6.62E-07	30YrCance	6.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	ALL		495146	3761336	4.14E-07	30YrCance	4.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	ALL		495166	3761336	3.99E-07	30YrCance	3.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	ALL		495186	3761336	3.84E-07	30YrCance	3.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	ALL		495206	3761336	3.68E-07	30YrCance	3.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	ALL		495226	3761336	3.52E-07	30YrCance	3.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	ALL		495246	3761336	3.37E-07	30YrCance	3.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	ALL		495266	3761336	3.25E-07	30YrCance	3.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	ALL		495286	3761336	3.19E-07	30YrCance	3.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	ALL		495306	3761336	3.03E-07	30YrCance	3.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
11	ALL		495326	3761336	2.87E-07	30YrCance	2.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12	ALL		495346	3761336	2.75E-07	30YrCance	2.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13	ALL		495366	3761336	2.61E-07	30YrCance	2.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
14	ALL		495386	3761336	2.50E-07	30YrCance	2.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
15	ALL		495406	3761336	2.41E-07	30YrCance	2.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16	ALL		495006	3761356	6.60E-07	30YrCance	6.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17	ALL		495026	3761356	6.18E-07	30YrCance	6.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
18	ALL		495046	3761356	5.80E-07	30YrCance	5.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19	ALL		495066	3761356	5.44E-07	30YrCance	5.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20	ALL		495086	3761356	5.05E-07	30YrCance	5.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21	ALL		495106	3761356	4.67E-07	30YrCance	4.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22	ALL		495126	3761356	4.42E-07	30YrCance	4.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23	ALL		495146	3761356	4.23E-07	30YrCance	4.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
24	ALL		495166	3761356	4.05E-07	30YrCance	4.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25	ALL		495186	3761356	3.88E-07	30YrCance	3.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
26	ALL		495206	3761356	3.71E-07	30YrCance	3.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27	ALL		495226	3761356	3.56E-07	30YrCance	3.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28	ALL		495246	3761356	3.41E-07	30YrCance	3.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29	ALL		495266	3761356	3.28E-07	30YrCance	3.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30	ALL		495286	3761356	3.16E-07	30YrCance	3.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31	ALL		495306	3761356	2.99E-07	30YrCance	2.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
32	ALL		495326	3761356	2.84E-07	30YrCance	2.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33	ALL		495346	3761356	2.73E-07	30YrCance	2.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34	ALL		495366	3761356	2.60E-07	30YrCance	2.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35	ALL		495386	3761356	2.49E-07	30YrCance	2.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36	ALL		495406	3761356	2.39E-07	30YrCance	2.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37	ALL		495426	3761356	2.30E-07	30YrCance	2.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38	ALL		495446	3761356	2.20E-07	30YrCance	2.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39	ALL		495006	3761376	6.53E-07	30YrCance	6.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
40	ALL		495026	3761376	6.11E-07	30YrCance	6.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41	ALL		495046	3761376	5.73E-07	30YrCance	5.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
42	ALL		495066	3761376	5.39E-07	30YrCance	5.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43	ALL		495086	3761376	5.08E-07	30YrCance	5.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
44	ALL		495106	3761376	4.77E-07	30YrCance	4.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
45	ALL		495126	3761376	4.51E-07	30YrCance	4.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46	ALL		495146	3761376	4.29E-07	30YrCance	4.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

47	ALL	495166	3761376	4.08E-07	30YrCance	4.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48	ALL	495186	3761376	3.88E-07	30YrCance	3.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
49	ALL	495206	3761376	3.71E-07	30YrCance	3.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
50	ALL	495226	3761376	3.55E-07	30YrCance	3.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51	ALL	495246	3761376	3.42E-07	30YrCance	3.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52	ALL	495266	3761376	3.27E-07	30YrCance	3.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53	ALL	495286	3761376	3.10E-07	30YrCance	3.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54	ALL	495306	3761376	2.94E-07	30YrCance	2.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55	ALL	495326	3761376	2.81E-07	30YrCance	2.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56	ALL	495346	3761376	2.70E-07	30YrCance	2.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57	ALL	495366	3761376	2.58E-07	30YrCance	2.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58	ALL	495386	3761376	2.47E-07	30YrCance	2.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59	ALL	495406	3761376	2.37E-07	30YrCance	2.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60	ALL	495426	3761376	2.27E-07	30YrCance	2.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
61	ALL	495446	3761376	2.16E-07	30YrCance	2.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
62	ALL	495466	3761376	2.07E-07	30YrCance	2.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63	ALL	495486	3761376	2.01E-07	30YrCance	2.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64	ALL	494986	3761396	6.88E-07	30YrCance	6.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65	ALL	495006	3761396	6.43E-07	30YrCance	6.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66	ALL	495026	3761396	6.01E-07	30YrCance	6.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67	ALL	495046	3761396	5.63E-07	30YrCance	5.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
68	ALL	495066	3761396	5.29E-07	30YrCance	5.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
69	ALL	495086	3761396	5.01E-07	30YrCance	5.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70	ALL	495106	3761396	4.73E-07	30YrCance	4.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71	ALL	495126	3761396	4.48E-07	30YrCance	4.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72	ALL	495146	3761396	4.25E-07	30YrCance	4.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73	ALL	495166	3761396	4.05E-07	30YrCance	4.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL	495186	3761396	3.86E-07	30YrCance	3.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
75	ALL	495206	3761396	3.68E-07	30YrCance	3.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
76	ALL	495226	3761396	3.53E-07	30YrCance	3.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
77	ALL	495246	3761396	3.36E-07	30YrCance	3.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
78	ALL	495266	3761396	3.20E-07	30YrCance	3.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
79	ALL	495286	3761396	3.04E-07	30YrCance	3.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
80	ALL	495306	3761396	2.90E-07	30YrCance	2.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
81	ALL	495326	3761396	2.77E-07	30YrCance	2.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
82	ALL	495346	3761396	2.65E-07	30YrCance	2.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
83	ALL	495366	3761396	2.54E-07	30YrCance	2.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
84	ALL	495386	3761396	2.43E-07	30YrCance	2.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
85	ALL	495406	3761396	2.33E-07	30YrCance	2.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
86	ALL	495426	3761396	2.23E-07	30YrCance	2.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
87	ALL	495446	3761396	2.13E-07	30YrCance	2.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
88	ALL	495466	3761396	2.05E-07	30YrCance	2.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
89	ALL	495486	3761396	1.98E-07	30YrCance	1.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
90	ALL	495506	3761396	1.93E-07	30YrCance	1.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
91	ALL	494966	3761416	7.25E-07	30YrCance	7.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
92	ALL	494986	3761416	6.74E-07	30YrCance	6.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
93	ALL	495006	3761416	6.28E-07	30YrCance	6.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

94	ALL	495026	3761416	5.88E-07	30YrCance	5.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
95	ALL	495046	3761416	5.51E-07	30YrCance	5.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
96	ALL	495066	3761416	5.18E-07	30YrCance	5.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
97	ALL	495086	3761416	4.89E-07	30YrCance	4.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
98	ALL	495106	3761416	4.66E-07	30YrCance	4.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
99	ALL	495126	3761416	4.42E-07	30YrCance	4.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL	495146	3761416	4.20E-07	30YrCance	4.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
101	ALL	495166	3761416	4.00E-07	30YrCance	4.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
102	ALL	495186	3761416	3.81E-07	30YrCance	3.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
103	ALL	495206	3761416	3.64E-07	30YrCance	3.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
104	ALL	495226	3761416	3.46E-07	30YrCance	3.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
105	ALL	495246	3761416	3.29E-07	30YrCance	3.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
106	ALL	495266	3761416	3.13E-07	30YrCance	3.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
107	ALL	495286	3761416	2.99E-07	30YrCance	2.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
108	ALL	495306	3761416	2.85E-07	30YrCance	2.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
109	ALL	495326	3761416	2.72E-07	30YrCance	2.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
110	ALL	495346	3761416	2.58E-07	30YrCance	2.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
111	ALL	495366	3761416	2.47E-07	30YrCance	2.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
112	ALL	495386	3761416	2.38E-07	30YrCance	2.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
113	ALL	495406	3761416	2.28E-07	30YrCance	2.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
114	ALL	495426	3761416	2.19E-07	30YrCance	2.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
115	ALL	495446	3761416	2.10E-07	30YrCance	2.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
116	ALL	495466	3761416	2.02E-07	30YrCance	2.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
117	ALL	495486	3761416	1.95E-07	30YrCance	1.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
118	ALL	495506	3761416	1.89E-07	30YrCance	1.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
119	ALL	495526	3761416	1.84E-07	30YrCance	1.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
120	ALL	494966	3761436	7.04E-07	30YrCance	7.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
121	ALL	494986	3761436	6.54E-07	30YrCance	6.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
122	ALL	495006	3761436	6.11E-07	30YrCance	6.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
123	ALL	495026	3761436	5.72E-07	30YrCance	5.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
124	ALL	495046	3761436	5.36E-07	30YrCance	5.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
125	ALL	495066	3761436	5.04E-07	30YrCance	5.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
126	ALL	495086	3761436	4.75E-07	30YrCance	4.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
127	ALL	495106	3761436	4.51E-07	30YrCance	4.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
128	ALL	495126	3761436	4.29E-07	30YrCance	4.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
129	ALL	495146	3761436	4.09E-07	30YrCance	4.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
130	ALL	495166	3761436	3.90E-07	30YrCance	3.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
131	ALL	495186	3761436	3.72E-07	30YrCance	3.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
132	ALL	495206	3761436	3.55E-07	30YrCance	3.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
133	ALL	495226	3761436	3.38E-07	30YrCance	3.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
134	ALL	495246	3761436	3.20E-07	30YrCance	3.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
135	ALL	495266	3761436	3.06E-07	30YrCance	3.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
136	ALL	495286	3761436	2.93E-07	30YrCance	2.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
137	ALL	495306	3761436	2.80E-07	30YrCance	2.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
138	ALL	495326	3761436	2.66E-07	30YrCance	2.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
139	ALL	495346	3761436	2.50E-07	30YrCance	2.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
140	ALL	495366	3761436	2.40E-07	30YrCance	2.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

141	ALL	495386	3761436	2.31E-07	30YrCance	2.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
142	ALL	495406	3761436	2.23E-07	30YrCance	2.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
143	ALL	495426	3761436	2.14E-07	30YrCance	2.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
144	ALL	495446	3761436	2.06E-07	30YrCance	2.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
145	ALL	495466	3761436	1.99E-07	30YrCance	1.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
146	ALL	495486	3761436	1.92E-07	30YrCance	1.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
147	ALL	495506	3761436	1.86E-07	30YrCance	1.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
148	ALL	495526	3761436	1.80E-07	30YrCance	1.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
149	ALL	494846	3761456	1.24E-06	30YrCance	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
150	ALL	494946	3761456	7.36E-07	30YrCance	7.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
151	ALL	494966	3761456	6.81E-07	30YrCance	6.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
152	ALL	494986	3761456	6.33E-07	30YrCance	6.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
153	ALL	495006	3761456	5.92E-07	30YrCance	5.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
154	ALL	495026	3761456	5.54E-07	30YrCance	5.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
155	ALL	495046	3761456	5.20E-07	30YrCance	5.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
156	ALL	495066	3761456	4.89E-07	30YrCance	4.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
157	ALL	495086	3761456	4.62E-07	30YrCance	4.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
158	ALL	495106	3761456	4.37E-07	30YrCance	4.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
159	ALL	495126	3761456	4.15E-07	30YrCance	4.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
160	ALL	495146	3761456	3.96E-07	30YrCance	3.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
161	ALL	495166	3761456	3.78E-07	30YrCance	3.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
162	ALL	495186	3761456	3.61E-07	30YrCance	3.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
163	ALL	495206	3761456	3.45E-07	30YrCance	3.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
164	ALL	495226	3761456	3.28E-07	30YrCance	3.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
165	ALL	495246	3761456	3.11E-07	30YrCance	3.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
166	ALL	495266	3761456	2.98E-07	30YrCance	2.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
167	ALL	495286	3761456	2.86E-07	30YrCance	2.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
168	ALL	495306	3761456	2.73E-07	30YrCance	2.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
169	ALL	495326	3761456	2.59E-07	30YrCance	2.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
170	ALL	495346	3761456	2.43E-07	30YrCance	2.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
171	ALL	495366	3761456	2.34E-07	30YrCance	2.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
172	ALL	495386	3761456	2.26E-07	30YrCance	2.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
173	ALL	495406	3761456	2.18E-07	30YrCance	2.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
174	ALL	495426	3761456	2.10E-07	30YrCance	2.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
175	ALL	495446	3761456	2.01E-07	30YrCance	2.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
176	ALL	495466	3761456	1.95E-07	30YrCance	1.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
177	ALL	495486	3761456	1.88E-07	30YrCance	1.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
178	ALL	495506	3761456	1.82E-07	30YrCance	1.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
179	ALL	495526	3761456	1.76E-07	30YrCance	1.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
180	ALL	494866	3761476	1.04E-06	30YrCance	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
181	ALL	494886	3761476	9.29E-07	30YrCance	9.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
182	ALL	494906	3761476	8.41E-07	30YrCance	8.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
183	ALL	494926	3761476	7.69E-07	30YrCance	7.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
184	ALL	494946	3761476	7.08E-07	30YrCance	7.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
185	ALL	494966	3761476	6.56E-07	30YrCance	6.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
186	ALL	494986	3761476	6.10E-07	30YrCance	6.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
187	ALL	495006	3761476	5.71E-07	30YrCance	5.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

188	ALL	495026	3761476	5.35E-07	30YrCance	5.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
189	ALL	495046	3761476	5.03E-07	30YrCance	5.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
190	ALL	495066	3761476	4.73E-07	30YrCance	4.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
191	ALL	495086	3761476	4.47E-07	30YrCance	4.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
192	ALL	495106	3761476	4.23E-07	30YrCance	4.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
193	ALL	495126	3761476	4.02E-07	30YrCance	4.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
194	ALL	495146	3761476	3.83E-07	30YrCance	3.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
195	ALL	495166	3761476	3.66E-07	30YrCance	3.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
196	ALL	495186	3761476	3.49E-07	30YrCance	3.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
197	ALL	495206	3761476	3.33E-07	30YrCance	3.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
198	ALL	495226	3761476	3.17E-07	30YrCance	3.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
199	ALL	495246	3761476	3.01E-07	30YrCance	3.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
200	ALL	495266	3761476	2.89E-07	30YrCance	2.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
201	ALL	495286	3761476	2.77E-07	30YrCance	2.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
202	ALL	495306	3761476	2.65E-07	30YrCance	2.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
203	ALL	495326	3761476	2.51E-07	30YrCance	2.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
204	ALL	495346	3761476	2.37E-07	30YrCance	2.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
205	ALL	495366	3761476	2.29E-07	30YrCance	2.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
206	ALL	495386	3761476	2.21E-07	30YrCance	2.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
207	ALL	495406	3761476	2.13E-07	30YrCance	2.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
208	ALL	495426	3761476	2.04E-07	30YrCance	2.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
209	ALL	495446	3761476	1.96E-07	30YrCance	1.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
210	ALL	495466	3761476	1.90E-07	30YrCance	1.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
211	ALL	495486	3761476	1.84E-07	30YrCance	1.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
212	ALL	495506	3761476	1.78E-07	30YrCance	1.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
213	ALL	495526	3761476	1.71E-07	30YrCance	1.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
214	ALL	494866	3761496	1.01E-06	30YrCance	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
215	ALL	494886	3761496	8.94E-07	30YrCance	8.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
216	ALL	494906	3761496	8.08E-07	30YrCance	8.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
217	ALL	494926	3761496	7.38E-07	30YrCance	7.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
218	ALL	494946	3761496	6.80E-07	30YrCance	6.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
219	ALL	494966	3761496	6.31E-07	30YrCance	6.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
220	ALL	494986	3761496	5.87E-07	30YrCance	5.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
221	ALL	495006	3761496	5.50E-07	30YrCance	5.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
222	ALL	495026	3761496	5.16E-07	30YrCance	5.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
223	ALL	495046	3761496	4.84E-07	30YrCance	4.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
224	ALL	495066	3761496	4.56E-07	30YrCance	4.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
225	ALL	495086	3761496	4.31E-07	30YrCance	4.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
226	ALL	495106	3761496	4.09E-07	30YrCance	4.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
227	ALL	495126	3761496	3.88E-07	30YrCance	3.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
228	ALL	495146	3761496	3.69E-07	30YrCance	3.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
229	ALL	495166	3761496	3.52E-07	30YrCance	3.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
230	ALL	495186	3761496	3.35E-07	30YrCance	3.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
231	ALL	495206	3761496	3.19E-07	30YrCance	3.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
232	ALL	495226	3761496	3.05E-07	30YrCance	3.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
233	ALL	495246	3761496	2.91E-07	30YrCance	2.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
234	ALL	495266	3761496	2.79E-07	30YrCance	2.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

235	ALL	495286	3761496	2.67E-07	30YrCance	2.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
236	ALL	495306	3761496	2.56E-07	30YrCance	2.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
237	ALL	495326	3761496	2.44E-07	30YrCance	2.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
238	ALL	495346	3761496	2.31E-07	30YrCance	2.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
239	ALL	495366	3761496	2.24E-07	30YrCance	2.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
240	ALL	495386	3761496	2.16E-07	30YrCance	2.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
241	ALL	495406	3761496	2.08E-07	30YrCance	2.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
242	ALL	495426	3761496	1.99E-07	30YrCance	1.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
243	ALL	495446	3761496	1.90E-07	30YrCance	1.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
244	ALL	495466	3761496	1.84E-07	30YrCance	1.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
245	ALL	495486	3761496	1.79E-07	30YrCance	1.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
246	ALL	495506	3761496	1.73E-07	30YrCance	1.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
247	ALL	495526	3761496	1.67E-07	30YrCance	1.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
248	ALL	494866	3761516	9.69E-07	30YrCance	9.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
249	ALL	494886	3761516	8.55E-07	30YrCance	8.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
250	ALL	494906	3761516	7.74E-07	30YrCance	7.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
251	ALL	494926	3761516	7.07E-07	30YrCance	7.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
252	ALL	494946	3761516	6.52E-07	30YrCance	6.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
253	ALL	494966	3761516	6.04E-07	30YrCance	6.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
254	ALL	494986	3761516	5.63E-07	30YrCance	5.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
255	ALL	495006	3761516	5.29E-07	30YrCance	5.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
256	ALL	495026	3761516	4.96E-07	30YrCance	4.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
257	ALL	495046	3761516	4.66E-07	30YrCance	4.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
258	ALL	495066	3761516	4.39E-07	30YrCance	4.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
259	ALL	495086	3761516	4.15E-07	30YrCance	4.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
260	ALL	495106	3761516	3.94E-07	30YrCance	3.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
261	ALL	495126	3761516	3.74E-07	30YrCance	3.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
262	ALL	495146	3761516	3.56E-07	30YrCance	3.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
263	ALL	495166	3761516	3.40E-07	30YrCance	3.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
264	ALL	495186	3761516	3.24E-07	30YrCance	3.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
265	ALL	495206	3761516	3.09E-07	30YrCance	3.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
266	ALL	495226	3761516	2.95E-07	30YrCance	2.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
267	ALL	495246	3761516	2.82E-07	30YrCance	2.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
268	ALL	495266	3761516	2.70E-07	30YrCance	2.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
269	ALL	495286	3761516	2.59E-07	30YrCance	2.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
270	ALL	495306	3761516	2.47E-07	30YrCance	2.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
271	ALL	495326	3761516	2.36E-07	30YrCance	2.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
272	ALL	495346	3761516	2.26E-07	30YrCance	2.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
273	ALL	495366	3761516	2.18E-07	30YrCance	2.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
274	ALL	495386	3761516	2.10E-07	30YrCance	2.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
275	ALL	495406	3761516	2.02E-07	30YrCance	2.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
276	ALL	495426	3761516	1.94E-07	30YrCance	1.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
277	ALL	495446	3761516	1.85E-07	30YrCance	1.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
278	ALL	495466	3761516	1.79E-07	30YrCance	1.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
279	ALL	495486	3761516	1.74E-07	30YrCance	1.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
280	ALL	495506	3761516	1.69E-07	30YrCance	1.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
281	ALL	495526	3761516	1.63E-07	30YrCance	1.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

282	ALL	494866	3761536	9.27E-07	30YrCance	9.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
283	ALL	494886	3761536	8.17E-07	30YrCance	8.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
284	ALL	494906	3761536	7.40E-07	30YrCance	7.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
285	ALL	494926	3761536	6.76E-07	30YrCance	6.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
286	ALL	494946	3761536	6.24E-07	30YrCance	6.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
287	ALL	494966	3761536	5.78E-07	30YrCance	5.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
288	ALL	494986	3761536	5.39E-07	30YrCance	5.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
289	ALL	495006	3761536	5.07E-07	30YrCance	5.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
290	ALL	495026	3761536	4.76E-07	30YrCance	4.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
291	ALL	495046	3761536	4.47E-07	30YrCance	4.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
292	ALL	495066	3761536	4.21E-07	30YrCance	4.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
293	ALL	495086	3761536	3.99E-07	30YrCance	3.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
294	ALL	495106	3761536	3.78E-07	30YrCance	3.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
295	ALL	495126	3761536	3.60E-07	30YrCance	3.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
296	ALL	495146	3761536	3.42E-07	30YrCance	3.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
297	ALL	495166	3761536	3.26E-07	30YrCance	3.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
298	ALL	495186	3761536	3.12E-07	30YrCance	3.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
299	ALL	495206	3761536	2.97E-07	30YrCance	2.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
300	ALL	495226	3761536	2.84E-07	30YrCance	2.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
301	ALL	495246	3761536	2.72E-07	30YrCance	2.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
302	ALL	495266	3761536	2.61E-07	30YrCance	2.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
303	ALL	495286	3761536	2.50E-07	30YrCance	2.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
304	ALL	495306	3761536	2.39E-07	30YrCance	2.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
305	ALL	495326	3761536	2.29E-07	30YrCance	2.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
306	ALL	495346	3761536	2.20E-07	30YrCance	2.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
307	ALL	495366	3761536	2.12E-07	30YrCance	2.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
308	ALL	495386	3761536	2.04E-07	30YrCance	2.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
309	ALL	495406	3761536	1.96E-07	30YrCance	1.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
310	ALL	495426	3761536	1.88E-07	30YrCance	1.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
311	ALL	495446	3761536	1.79E-07	30YrCance	1.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
312	ALL	495466	3761536	1.74E-07	30YrCance	1.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
313	ALL	495486	3761536	1.69E-07	30YrCance	1.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
314	ALL	495506	3761536	1.64E-07	30YrCance	1.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
315	ALL	495526	3761536	1.58E-07	30YrCance	1.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
316	ALL	494866	3761556	8.84E-07	30YrCance	8.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
317	ALL	494886	3761556	7.78E-07	30YrCance	7.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
318	ALL	494906	3761556	7.06E-07	30YrCance	7.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
319	ALL	494926	3761556	6.46E-07	30YrCance	6.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
320	ALL	494946	3761556	5.96E-07	30YrCance	5.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
321	ALL	494966	3761556	5.53E-07	30YrCance	5.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
322	ALL	494986	3761556	5.16E-07	30YrCance	5.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
323	ALL	495006	3761556	4.85E-07	30YrCance	4.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
324	ALL	495026	3761556	4.56E-07	30YrCance	4.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
325	ALL	495046	3761556	4.28E-07	30YrCance	4.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
326	ALL	495066	3761556	4.04E-07	30YrCance	4.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
327	ALL	495086	3761556	3.83E-07	30YrCance	3.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
328	ALL	495106	3761556	3.63E-07	30YrCance	3.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

329	ALL	495126	3761556	3.45E-07	30YrCance	3.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
330	ALL	495146	3761556	3.28E-07	30YrCance	3.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
331	ALL	495166	3761556	3.13E-07	30YrCance	3.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
332	ALL	495186	3761556	2.99E-07	30YrCance	2.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
333	ALL	495206	3761556	2.85E-07	30YrCance	2.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
334	ALL	495226	3761556	2.73E-07	30YrCance	2.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
335	ALL	495246	3761556	2.61E-07	30YrCance	2.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
336	ALL	495266	3761556	2.51E-07	30YrCance	2.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
337	ALL	495286	3761556	2.41E-07	30YrCance	2.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
338	ALL	495306	3761556	2.31E-07	30YrCance	2.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
339	ALL	495326	3761556	2.22E-07	30YrCance	2.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
340	ALL	495346	3761556	2.13E-07	30YrCance	2.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
341	ALL	495366	3761556	2.05E-07	30YrCance	2.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
342	ALL	495386	3761556	1.97E-07	30YrCance	1.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
343	ALL	495406	3761556	1.90E-07	30YrCance	1.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
344	ALL	495426	3761556	1.83E-07	30YrCance	1.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
345	ALL	495446	3761556	1.75E-07	30YrCance	1.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
346	ALL	495466	3761556	1.69E-07	30YrCance	1.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
347	ALL	495486	3761556	1.64E-07	30YrCance	1.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
348	ALL	495506	3761556	1.58E-07	30YrCance	1.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
349	ALL	495526	3761556	1.53E-07	30YrCance	1.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
350	ALL	494846	3761576	9.95E-07	30YrCance	9.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
351	ALL	494866	3761576	8.40E-07	30YrCance	8.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
352	ALL	494886	3761576	7.41E-07	30YrCance	7.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
353	ALL	494906	3761576	6.72E-07	30YrCance	6.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
354	ALL	494926	3761576	6.16E-07	30YrCance	6.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
355	ALL	494946	3761576	5.68E-07	30YrCance	5.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
356	ALL	494966	3761576	5.27E-07	30YrCance	5.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
357	ALL	494986	3761576	4.92E-07	30YrCance	4.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
358	ALL	495006	3761576	4.63E-07	30YrCance	4.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
359	ALL	495026	3761576	4.35E-07	30YrCance	4.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
360	ALL	495046	3761576	4.10E-07	30YrCance	4.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
361	ALL	495066	3761576	3.86E-07	30YrCance	3.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
362	ALL	495086	3761576	3.67E-07	30YrCance	3.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
363	ALL	495106	3761576	3.48E-07	30YrCance	3.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
364	ALL	495126	3761576	3.31E-07	30YrCance	3.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
365	ALL	495146	3761576	3.14E-07	30YrCance	3.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
366	ALL	495166	3761576	2.99E-07	30YrCance	2.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
367	ALL	495186	3761576	2.86E-07	30YrCance	2.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
368	ALL	495206	3761576	2.73E-07	30YrCance	2.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
369	ALL	495226	3761576	2.61E-07	30YrCance	2.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
370	ALL	495246	3761576	2.49E-07	30YrCance	2.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
371	ALL	495266	3761576	2.39E-07	30YrCance	2.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
372	ALL	495286	3761576	2.30E-07	30YrCance	2.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
373	ALL	495306	3761576	2.21E-07	30YrCance	2.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
374	ALL	495326	3761576	2.12E-07	30YrCance	2.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
375	ALL	495346	3761576	2.04E-07	30YrCance	2.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

376	ALL	495366	3761576	1.97E-07	30YrCance	1.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
377	ALL	495386	3761576	1.90E-07	30YrCance	1.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
378	ALL	495406	3761576	1.83E-07	30YrCance	1.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
379	ALL	495426	3761576	1.76E-07	30YrCance	1.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
380	ALL	495446	3761576	1.70E-07	30YrCance	1.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
381	ALL	495466	3761576	1.64E-07	30YrCance	1.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
382	ALL	495486	3761576	1.59E-07	30YrCance	1.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
383	ALL	495506	3761576	1.53E-07	30YrCance	1.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
384	ALL	495526	3761576	1.48E-07	30YrCance	1.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
385	ALL	494846	3761596	9.39E-07	30YrCance	9.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
386	ALL	494866	3761596	7.95E-07	30YrCance	7.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
387	ALL	494886	3761596	7.03E-07	30YrCance	7.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
388	ALL	494906	3761596	6.38E-07	30YrCance	6.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
389	ALL	494926	3761596	5.86E-07	30YrCance	5.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
390	ALL	494946	3761596	5.41E-07	30YrCance	5.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
391	ALL	494966	3761596	5.02E-07	30YrCance	5.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
392	ALL	494986	3761596	4.69E-07	30YrCance	4.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
393	ALL	495006	3761596	4.41E-07	30YrCance	4.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
394	ALL	495026	3761596	4.14E-07	30YrCance	4.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
395	ALL	495046	3761596	3.91E-07	30YrCance	3.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
396	ALL	495066	3761596	3.69E-07	30YrCance	3.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
397	ALL	495086	3761596	3.51E-07	30YrCance	3.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
398	ALL	495106	3761596	3.34E-07	30YrCance	3.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
399	ALL	495126	3761596	3.17E-07	30YrCance	3.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
400	ALL	495146	3761596	3.01E-07	30YrCance	3.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
401	ALL	495166	3761596	2.87E-07	30YrCance	2.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
402	ALL	495186	3761596	2.73E-07	30YrCance	2.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
403	ALL	495206	3761596	2.61E-07	30YrCance	2.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
404	ALL	495226	3761596	2.49E-07	30YrCance	2.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
405	ALL	495246	3761596	2.39E-07	30YrCance	2.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
406	ALL	495266	3761596	2.29E-07	30YrCance	2.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
407	ALL	495286	3761596	2.20E-07	30YrCance	2.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
408	ALL	495306	3761596	2.11E-07	30YrCance	2.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
409	ALL	495326	3761596	2.04E-07	30YrCance	2.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
410	ALL	495346	3761596	1.96E-07	30YrCance	1.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
411	ALL	495366	3761596	1.89E-07	30YrCance	1.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
412	ALL	495386	3761596	1.82E-07	30YrCance	1.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
413	ALL	495406	3761596	1.76E-07	30YrCance	1.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
414	ALL	495426	3761596	1.70E-07	30YrCance	1.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
415	ALL	495446	3761596	1.64E-07	30YrCance	1.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
416	ALL	495466	3761596	1.58E-07	30YrCance	1.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
417	ALL	495486	3761596	1.53E-07	30YrCance	1.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
418	ALL	495506	3761596	1.48E-07	30YrCance	1.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
419	ALL	495526	3761596	1.43E-07	30YrCance	1.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
420	ALL	494846	3761616	8.85E-07	30YrCance	8.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
421	ALL	494866	3761616	7.50E-07	30YrCance	7.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
422	ALL	494886	3761616	6.65E-07	30YrCance	6.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

423	ALL	494906	3761616	6.05E-07	30YrCance	6.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
424	ALL	494926	3761616	5.56E-07	30YrCance	5.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
425	ALL	494946	3761616	5.14E-07	30YrCance	5.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
426	ALL	494966	3761616	4.77E-07	30YrCance	4.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
427	ALL	494986	3761616	4.46E-07	30YrCance	4.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
428	ALL	495006	3761616	4.19E-07	30YrCance	4.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
429	ALL	495026	3761616	3.94E-07	30YrCance	3.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
430	ALL	495046	3761616	3.73E-07	30YrCance	3.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
431	ALL	495066	3761616	3.52E-07	30YrCance	3.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
432	ALL	495086	3761616	3.36E-07	30YrCance	3.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
433	ALL	495106	3761616	3.19E-07	30YrCance	3.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
434	ALL	495126	3761616	3.03E-07	30YrCance	3.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
435	ALL	495146	3761616	2.89E-07	30YrCance	2.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
436	ALL	495166	3761616	2.75E-07	30YrCance	2.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
437	ALL	495186	3761616	2.62E-07	30YrCance	2.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
438	ALL	495206	3761616	2.51E-07	30YrCance	2.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
439	ALL	495226	3761616	2.40E-07	30YrCance	2.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
440	ALL	495246	3761616	2.30E-07	30YrCance	2.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
441	ALL	495266	3761616	2.20E-07	30YrCance	2.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
442	ALL	495286	3761616	2.11E-07	30YrCance	2.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
443	ALL	495306	3761616	2.03E-07	30YrCance	2.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
444	ALL	495326	3761616	1.96E-07	30YrCance	1.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
445	ALL	495346	3761616	1.88E-07	30YrCance	1.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
446	ALL	495366	3761616	1.82E-07	30YrCance	1.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
447	ALL	495386	3761616	1.75E-07	30YrCance	1.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
448	ALL	495406	3761616	1.69E-07	30YrCance	1.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
449	ALL	495426	3761616	1.63E-07	30YrCance	1.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
450	ALL	495446	3761616	1.58E-07	30YrCance	1.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
451	ALL	495466	3761616	1.53E-07	30YrCance	1.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
452	ALL	495486	3761616	1.48E-07	30YrCance	1.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
453	ALL	495506	3761616	1.43E-07	30YrCance	1.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
454	ALL	495526	3761616	1.38E-07	30YrCance	1.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
455	ALL	494846	3761636	8.32E-07	30YrCance	8.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
456	ALL	494866	3761636	7.07E-07	30YrCance	7.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
457	ALL	494886	3761636	6.27E-07	30YrCance	6.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
458	ALL	494906	3761636	5.72E-07	30YrCance	5.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
459	ALL	494926	3761636	5.26E-07	30YrCance	5.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
460	ALL	494946	3761636	4.86E-07	30YrCance	4.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
461	ALL	494966	3761636	4.52E-07	30YrCance	4.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
462	ALL	494986	3761636	4.24E-07	30YrCance	4.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
463	ALL	495006	3761636	3.98E-07	30YrCance	3.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
464	ALL	495026	3761636	3.75E-07	30YrCance	3.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
465	ALL	495046	3761636	3.55E-07	30YrCance	3.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
466	ALL	495066	3761636	3.36E-07	30YrCance	3.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
467	ALL	495086	3761636	3.20E-07	30YrCance	3.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
468	ALL	495106	3761636	3.04E-07	30YrCance	3.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
469	ALL	495126	3761636	2.89E-07	30YrCance	2.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

470	ALL	495146	3761636	2.75E-07	30YrCance	2.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
471	ALL	495166	3761636	2.62E-07	30YrCance	2.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
472	ALL	495186	3761636	2.50E-07	30YrCance	2.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
473	ALL	495206	3761636	2.40E-07	30YrCance	2.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
474	ALL	495226	3761636	2.29E-07	30YrCance	2.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
475	ALL	495246	3761636	2.20E-07	30YrCance	2.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
476	ALL	495266	3761636	2.11E-07	30YrCance	2.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
477	ALL	495286	3761636	2.03E-07	30YrCance	2.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
478	ALL	495306	3761636	1.95E-07	30YrCance	1.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
479	ALL	495326	3761636	1.88E-07	30YrCance	1.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
480	ALL	495346	3761636	1.81E-07	30YrCance	1.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
481	ALL	495366	3761636	1.75E-07	30YrCance	1.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
482	ALL	495386	3761636	1.69E-07	30YrCance	1.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
483	ALL	495406	3761636	1.62E-07	30YrCance	1.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
484	ALL	495426	3761636	1.56E-07	30YrCance	1.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
485	ALL	495446	3761636	1.51E-07	30YrCance	1.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
486	ALL	495466	3761636	1.47E-07	30YrCance	1.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
487	ALL	495486	3761636	1.42E-07	30YrCance	1.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
488	ALL	495506	3761636	1.37E-07	30YrCance	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
489	ALL	495526	3761636	1.32E-07	30YrCance	1.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
490	ALL	494846	3761656	7.82E-07	30YrCance	7.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
491	ALL	494866	3761656	6.65E-07	30YrCance	6.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
492	ALL	494886	3761656	5.91E-07	30YrCance	5.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
493	ALL	494906	3761656	5.39E-07	30YrCance	5.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
494	ALL	494926	3761656	4.96E-07	30YrCance	4.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
495	ALL	494946	3761656	4.59E-07	30YrCance	4.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
496	ALL	494966	3761656	4.27E-07	30YrCance	4.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
497	ALL	494986	3761656	4.01E-07	30YrCance	4.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
498	ALL	495006	3761656	3.77E-07	30YrCance	3.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
499	ALL	495026	3761656	3.56E-07	30YrCance	3.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
500	ALL	495046	3761656	3.38E-07	30YrCance	3.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
501	ALL	495066	3761656	3.20E-07	30YrCance	3.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
502	ALL	495086	3761656	3.05E-07	30YrCance	3.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
503	ALL	495106	3761656	2.90E-07	30YrCance	2.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
504	ALL	495126	3761656	2.76E-07	30YrCance	2.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
505	ALL	495146	3761656	2.62E-07	30YrCance	2.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
506	ALL	495166	3761656	2.50E-07	30YrCance	2.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
507	ALL	495186	3761656	2.39E-07	30YrCance	2.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
508	ALL	495206	3761656	2.29E-07	30YrCance	2.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
509	ALL	495226	3761656	2.20E-07	30YrCance	2.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
510	ALL	495246	3761656	2.11E-07	30YrCance	2.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
511	ALL	495266	3761656	2.02E-07	30YrCance	2.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
512	ALL	495286	3761656	1.94E-07	30YrCance	1.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
513	ALL	495306	3761656	1.87E-07	30YrCance	1.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
514	ALL	495326	3761656	1.80E-07	30YrCance	1.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
515	ALL	495346	3761656	1.74E-07	30YrCance	1.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
516	ALL	495366	3761656	1.68E-07	30YrCance	1.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

517	ALL	495386	3761656	1.62E-07	30YrCance	1.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
518	ALL	495406	3761656	1.56E-07	30YrCance	1.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
519	ALL	495426	3761656	1.50E-07	30YrCance	1.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
520	ALL	495446	3761656	1.45E-07	30YrCance	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
521	ALL	495466	3761656	1.41E-07	30YrCance	1.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
522	ALL	495486	3761656	1.36E-07	30YrCance	1.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
523	ALL	495506	3761656	1.32E-07	30YrCance	1.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
524	ALL	495526	3761656	1.27E-07	30YrCance	1.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
525	ALL	494846	3761676	7.33E-07	30YrCance	7.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
526	ALL	494866	3761676	6.24E-07	30YrCance	6.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
527	ALL	494886	3761676	5.56E-07	30YrCance	5.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
528	ALL	494906	3761676	5.08E-07	30YrCance	5.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
529	ALL	494926	3761676	4.67E-07	30YrCance	4.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
530	ALL	494946	3761676	4.33E-07	30YrCance	4.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
531	ALL	494966	3761676	4.03E-07	30YrCance	4.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
532	ALL	494986	3761676	3.79E-07	30YrCance	3.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
533	ALL	495006	3761676	3.57E-07	30YrCance	3.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
534	ALL	495026	3761676	3.37E-07	30YrCance	3.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
535	ALL	495046	3761676	3.20E-07	30YrCance	3.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
536	ALL	495066	3761676	3.03E-07	30YrCance	3.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
537	ALL	495086	3761676	2.90E-07	30YrCance	2.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
538	ALL	495106	3761676	2.76E-07	30YrCance	2.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
539	ALL	495126	3761676	2.63E-07	30YrCance	2.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
540	ALL	495146	3761676	2.50E-07	30YrCance	2.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
541	ALL	495166	3761676	2.39E-07	30YrCance	2.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
542	ALL	495186	3761676	2.29E-07	30YrCance	2.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
543	ALL	495206	3761676	2.19E-07	30YrCance	2.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
544	ALL	495226	3761676	2.10E-07	30YrCance	2.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
545	ALL	495246	3761676	2.02E-07	30YrCance	2.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
546	ALL	495266	3761676	1.94E-07	30YrCance	1.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
547	ALL	495286	3761676	1.87E-07	30YrCance	1.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
548	ALL	495306	3761676	1.80E-07	30YrCance	1.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
549	ALL	495326	3761676	1.73E-07	30YrCance	1.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
550	ALL	495346	3761676	1.67E-07	30YrCance	1.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
551	ALL	495366	3761676	1.61E-07	30YrCance	1.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
552	ALL	495386	3761676	1.56E-07	30YrCance	1.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
553	ALL	495406	3761676	1.51E-07	30YrCance	1.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
554	ALL	495426	3761676	1.45E-07	30YrCance	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
555	ALL	495446	3761676	1.39E-07	30YrCance	1.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
556	ALL	495466	3761676	1.35E-07	30YrCance	1.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
557	ALL	495486	3761676	1.31E-07	30YrCance	1.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
558	ALL	495506	3761676	1.27E-07	30YrCance	1.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
559	ALL	495526	3761676	1.23E-07	30YrCance	1.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
560	ALL	494846	3761696	6.87E-07	30YrCance	6.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
561	ALL	494866	3761696	5.86E-07	30YrCance	5.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
562	ALL	494886	3761696	5.23E-07	30YrCance	5.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
563	ALL	494906	3761696	4.78E-07	30YrCance	4.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

564	ALL	494926	3761696	4.40E-07	30YrCance	4.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
565	ALL	494946	3761696	4.08E-07	30YrCance	4.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
566	ALL	494966	3761696	3.81E-07	30YrCance	3.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
567	ALL	494986	3761696	3.58E-07	30YrCance	3.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
568	ALL	495006	3761696	3.38E-07	30YrCance	3.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
569	ALL	495026	3761696	3.20E-07	30YrCance	3.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
570	ALL	495046	3761696	3.03E-07	30YrCance	3.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
571	ALL	495066	3761696	2.87E-07	30YrCance	2.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
572	ALL	495086	3761696	2.75E-07	30YrCance	2.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
573	ALL	495106	3761696	2.62E-07	30YrCance	2.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
574	ALL	495126	3761696	2.50E-07	30YrCance	2.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
575	ALL	495146	3761696	2.38E-07	30YrCance	2.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
576	ALL	495166	3761696	2.28E-07	30YrCance	2.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
577	ALL	495186	3761696	2.19E-07	30YrCance	2.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
578	ALL	495206	3761696	2.10E-07	30YrCance	2.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
579	ALL	495226	3761696	2.01E-07	30YrCance	2.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
580	ALL	495246	3761696	1.93E-07	30YrCance	1.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
581	ALL	495266	3761696	1.86E-07	30YrCance	1.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
582	ALL	495286	3761696	1.79E-07	30YrCance	1.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
583	ALL	495306	3761696	1.72E-07	30YrCance	1.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
584	ALL	495326	3761696	1.66E-07	30YrCance	1.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
585	ALL	495346	3761696	1.60E-07	30YrCance	1.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
586	ALL	495366	3761696	1.55E-07	30YrCance	1.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
587	ALL	495386	3761696	1.50E-07	30YrCance	1.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
588	ALL	495406	3761696	1.45E-07	30YrCance	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
589	ALL	495426	3761696	1.40E-07	30YrCance	1.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
590	ALL	495446	3761696	1.34E-07	30YrCance	1.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
591	ALL	495466	3761696	1.29E-07	30YrCance	1.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
592	ALL	495486	3761696	1.25E-07	30YrCance	1.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
593	ALL	495506	3761696	1.22E-07	30YrCance	1.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
594	ALL	495526	3761696	1.18E-07	30YrCance	1.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
595	ALL	494846	3761716	6.42E-07	30YrCance	6.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
596	ALL	494866	3761716	5.49E-07	30YrCance	5.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
597	ALL	494886	3761716	4.91E-07	30YrCance	4.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
598	ALL	494906	3761716	4.49E-07	30YrCance	4.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
599	ALL	494926	3761716	4.14E-07	30YrCance	4.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
600	ALL	494946	3761716	3.85E-07	30YrCance	3.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
601	ALL	494966	3761716	3.59E-07	30YrCance	3.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
602	ALL	494986	3761716	3.39E-07	30YrCance	3.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
603	ALL	495006	3761716	3.19E-07	30YrCance	3.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
604	ALL	495026	3761716	3.02E-07	30YrCance	3.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
605	ALL	495046	3761716	2.86E-07	30YrCance	2.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
606	ALL	495066	3761716	2.72E-07	30YrCance	2.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
607	ALL	495086	3761716	2.60E-07	30YrCance	2.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
608	ALL	495106	3761716	2.48E-07	30YrCance	2.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
609	ALL	495126	3761716	2.37E-07	30YrCance	2.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
610	ALL	495146	3761716	2.27E-07	30YrCance	2.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

611	ALL	495166	3761716	2.17E-07	30YrCance	2.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
612	ALL	495186	3761716	2.09E-07	30YrCance	2.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
613	ALL	495206	3761716	2.00E-07	30YrCance	2.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
614	ALL	495226	3761716	1.92E-07	30YrCance	1.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
615	ALL	495246	3761716	1.84E-07	30YrCance	1.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
616	ALL	495266	3761716	1.78E-07	30YrCance	1.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
617	ALL	495286	3761716	1.72E-07	30YrCance	1.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
618	ALL	495306	3761716	1.65E-07	30YrCance	1.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
619	ALL	495326	3761716	1.59E-07	30YrCance	1.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
620	ALL	495346	3761716	1.54E-07	30YrCance	1.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
621	ALL	495366	3761716	1.48E-07	30YrCance	1.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
622	ALL	495386	3761716	1.43E-07	30YrCance	1.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
623	ALL	495406	3761716	1.39E-07	30YrCance	1.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
624	ALL	495426	3761716	1.34E-07	30YrCance	1.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
625	ALL	495446	3761716	1.30E-07	30YrCance	1.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
626	ALL	495466	3761716	1.24E-07	30YrCance	1.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
627	ALL	495486	3761716	1.20E-07	30YrCance	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
628	ALL	495506	3761716	1.17E-07	30YrCance	1.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
629	ALL	495526	3761716	1.14E-07	30YrCance	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
630	ALL	495546	3761716	1.11E-07	30YrCance	1.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
631	ALL	494846	3761736	5.96E-07	30YrCance	5.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
632	ALL	494866	3761736	5.13E-07	30YrCance	5.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
633	ALL	494886	3761736	4.60E-07	30YrCance	4.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
634	ALL	494906	3761736	4.22E-07	30YrCance	4.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
635	ALL	494926	3761736	3.90E-07	30YrCance	3.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
636	ALL	494946	3761736	3.63E-07	30YrCance	3.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
637	ALL	494966	3761736	3.39E-07	30YrCance	3.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
638	ALL	494986	3761736	3.20E-07	30YrCance	3.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
639	ALL	495006	3761736	3.02E-07	30YrCance	3.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
640	ALL	495026	3761736	2.86E-07	30YrCance	2.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
641	ALL	495046	3761736	2.71E-07	30YrCance	2.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
642	ALL	495066	3761736	2.58E-07	30YrCance	2.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
643	ALL	495086	3761736	2.47E-07	30YrCance	2.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
644	ALL	495106	3761736	2.36E-07	30YrCance	2.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
645	ALL	495126	3761736	2.25E-07	30YrCance	2.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
646	ALL	495146	3761736	2.15E-07	30YrCance	2.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
647	ALL	495166	3761736	2.06E-07	30YrCance	2.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
648	ALL	495186	3761736	1.99E-07	30YrCance	1.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
649	ALL	495206	3761736	1.91E-07	30YrCance	1.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
650	ALL	495226	3761736	1.83E-07	30YrCance	1.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
651	ALL	495246	3761736	1.75E-07	30YrCance	1.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
652	ALL	495266	3761736	1.70E-07	30YrCance	1.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
653	ALL	495286	3761736	1.64E-07	30YrCance	1.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
654	ALL	495306	3761736	1.59E-07	30YrCance	1.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
655	ALL	495326	3761736	1.53E-07	30YrCance	1.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
656	ALL	495346	3761736	1.48E-07	30YrCance	1.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
657	ALL	495366	3761736	1.43E-07	30YrCance	1.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

658	ALL	495386	3761736	1.38E-07	30YrCance	1.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
659	ALL	495406	3761736	1.33E-07	30YrCance	1.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
660	ALL	495426	3761736	1.29E-07	30YrCance	1.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
661	ALL	495446	3761736	1.25E-07	30YrCance	1.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
662	ALL	495466	3761736	1.20E-07	30YrCance	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
663	ALL	495486	3761736	1.16E-07	30YrCance	1.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
664	ALL	495506	3761736	1.13E-07	30YrCance	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
665	ALL	495526	3761736	1.10E-07	30YrCance	1.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
666	ALL	495546	3761736	1.07E-07	30YrCance	1.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
667	ALL	494846	3761756	5.48E-07	30YrCance	5.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
668	ALL	494866	3761756	4.75E-07	30YrCance	4.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
669	ALL	494886	3761756	4.29E-07	30YrCance	4.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
670	ALL	494906	3761756	3.95E-07	30YrCance	3.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
671	ALL	494926	3761756	3.67E-07	30YrCance	3.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
672	ALL	494946	3761756	3.42E-07	30YrCance	3.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
673	ALL	494966	3761756	3.21E-07	30YrCance	3.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
674	ALL	494986	3761756	3.03E-07	30YrCance	3.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
675	ALL	495006	3761756	2.87E-07	30YrCance	2.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
676	ALL	495026	3761756	2.72E-07	30YrCance	2.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
677	ALL	495046	3761756	2.58E-07	30YrCance	2.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
678	ALL	495066	3761756	2.46E-07	30YrCance	2.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
679	ALL	495086	3761756	2.35E-07	30YrCance	2.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
680	ALL	495106	3761756	2.24E-07	30YrCance	2.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
681	ALL	495126	3761756	2.14E-07	30YrCance	2.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
682	ALL	495146	3761756	2.05E-07	30YrCance	2.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
683	ALL	495166	3761756	1.96E-07	30YrCance	1.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
684	ALL	495186	3761756	1.89E-07	30YrCance	1.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
685	ALL	495206	3761756	1.82E-07	30YrCance	1.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
686	ALL	495226	3761756	1.75E-07	30YrCance	1.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
687	ALL	495246	3761756	1.68E-07	30YrCance	1.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
688	ALL	495266	3761756	1.63E-07	30YrCance	1.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
689	ALL	495286	3761756	1.57E-07	30YrCance	1.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
690	ALL	495306	3761756	1.52E-07	30YrCance	1.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
691	ALL	495326	3761756	1.47E-07	30YrCance	1.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
692	ALL	495346	3761756	1.42E-07	30YrCance	1.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
693	ALL	495366	3761756	1.37E-07	30YrCance	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
694	ALL	495386	3761756	1.32E-07	30YrCance	1.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
695	ALL	495406	3761756	1.28E-07	30YrCance	1.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
696	ALL	495426	3761756	1.24E-07	30YrCance	1.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
697	ALL	495446	3761756	1.21E-07	30YrCance	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
698	ALL	495466	3761756	1.16E-07	30YrCance	1.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
699	ALL	495486	3761756	1.13E-07	30YrCance	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
700	ALL	495506	3761756	1.10E-07	30YrCance	1.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
701	ALL	495526	3761756	1.07E-07	30YrCance	1.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
702	ALL	495546	3761756	1.03E-07	30YrCance	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
703	ALL	495566	3761756	1.01E-07	30YrCance	1.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
704	ALL	494846	3761776	4.90E-07	30YrCance	4.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

705	ALL	494866	3761776	4.35E-07	30YrCance	4.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
706	ALL	494886	3761776	3.98E-07	30YrCance	3.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
707	ALL	494906	3761776	3.69E-07	30YrCance	3.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
708	ALL	494926	3761776	3.44E-07	30YrCance	3.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
709	ALL	494946	3761776	3.23E-07	30YrCance	3.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
710	ALL	494966	3761776	3.04E-07	30YrCance	3.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
711	ALL	494986	3761776	2.87E-07	30YrCance	2.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
712	ALL	495006	3761776	2.72E-07	30YrCance	2.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
713	ALL	495026	3761776	2.59E-07	30YrCance	2.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
714	ALL	495046	3761776	2.46E-07	30YrCance	2.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
715	ALL	495066	3761776	2.34E-07	30YrCance	2.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
716	ALL	495086	3761776	2.24E-07	30YrCance	2.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
717	ALL	495106	3761776	2.14E-07	30YrCance	2.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718	ALL	495126	3761776	2.04E-07	30YrCance	2.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719	ALL	495146	3761776	1.95E-07	30YrCance	1.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720	ALL	495166	3761776	1.87E-07	30YrCance	1.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721	ALL	495186	3761776	1.80E-07	30YrCance	1.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722	ALL	495206	3761776	1.74E-07	30YrCance	1.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
723	ALL	495226	3761776	1.68E-07	30YrCance	1.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
724	ALL	495246	3761776	1.61E-07	30YrCance	1.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
725	ALL	495266	3761776	1.56E-07	30YrCance	1.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
726	ALL	495286	3761776	1.51E-07	30YrCance	1.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
727	ALL	495306	3761776	1.46E-07	30YrCance	1.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
728	ALL	495326	3761776	1.41E-07	30YrCance	1.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
729	ALL	495346	3761776	1.36E-07	30YrCance	1.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
730	ALL	495366	3761776	1.32E-07	30YrCance	1.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
731	ALL	495386	3761776	1.27E-07	30YrCance	1.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
732	ALL	495406	3761776	1.24E-07	30YrCance	1.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
733	ALL	495426	3761776	1.20E-07	30YrCance	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
734	ALL	495446	3761776	1.16E-07	30YrCance	1.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
735	ALL	495466	3761776	1.13E-07	30YrCance	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
736	ALL	495486	3761776	1.10E-07	30YrCance	1.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
737	ALL	495506	3761776	1.06E-07	30YrCance	1.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
738	ALL	495526	3761776	1.03E-07	30YrCance	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
739	ALL	495546	3761776	1.00E-07	30YrCance	1.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
740	ALL	495566	3761776	9.73E-08	30YrCance	9.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
741	ALL	494846	3761796	4.29E-07	30YrCance	4.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
742	ALL	494866	3761796	3.93E-07	30YrCance	3.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
743	ALL	494886	3761796	3.65E-07	30YrCance	3.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
744	ALL	494906	3761796	3.42E-07	30YrCance	3.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
745	ALL	494926	3761796	3.21E-07	30YrCance	3.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
746	ALL	494946	3761796	3.03E-07	30YrCance	3.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
747	ALL	494966	3761796	2.86E-07	30YrCance	2.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
748	ALL	494986	3761796	2.71E-07	30YrCance	2.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
749	ALL	495006	3761796	2.57E-07	30YrCance	2.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
750	ALL	495026	3761796	2.44E-07	30YrCance	2.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
751	ALL	495046	3761796	2.33E-07	30YrCance	2.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

752	ALL	495066	3761796	2.22E-07	30YrCance	2.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
753	ALL	495086	3761796	2.12E-07	30YrCance	2.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
754	ALL	495106	3761796	2.03E-07	30YrCance	2.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
755	ALL	495126	3761796	1.94E-07	30YrCance	1.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
756	ALL	495146	3761796	1.86E-07	30YrCance	1.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
757	ALL	495166	3761796	1.78E-07	30YrCance	1.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
758	ALL	495186	3761796	1.72E-07	30YrCance	1.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
759	ALL	495206	3761796	1.66E-07	30YrCance	1.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
760	ALL	495226	3761796	1.60E-07	30YrCance	1.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
761	ALL	495246	3761796	1.55E-07	30YrCance	1.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
762	ALL	495266	3761796	1.50E-07	30YrCance	1.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
763	ALL	495286	3761796	1.45E-07	30YrCance	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
764	ALL	495306	3761796	1.40E-07	30YrCance	1.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
765	ALL	495326	3761796	1.35E-07	30YrCance	1.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
766	ALL	495346	3761796	1.31E-07	30YrCance	1.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
767	ALL	495366	3761796	1.27E-07	30YrCance	1.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
768	ALL	495386	3761796	1.23E-07	30YrCance	1.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
769	ALL	495406	3761796	1.19E-07	30YrCance	1.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
770	ALL	495426	3761796	1.16E-07	30YrCance	1.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
771	ALL	495446	3761796	1.12E-07	30YrCance	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
772	ALL	495466	3761796	1.09E-07	30YrCance	1.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
773	ALL	495486	3761796	1.06E-07	30YrCance	1.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
774	ALL	495506	3761796	1.03E-07	30YrCance	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
775	ALL	495526	3761796	1.00E-07	30YrCance	1.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
776	ALL	495546	3761796	9.71E-08	30YrCance	9.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
777	ALL	495566	3761796	9.42E-08	30YrCance	9.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
778	ALL	494966	3761816	2.69E-07	30YrCance	2.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
779	ALL	494986	3761816	2.55E-07	30YrCance	2.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
780	ALL	495006	3761816	2.43E-07	30YrCance	2.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
781	ALL	495026	3761816	2.32E-07	30YrCance	2.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
782	ALL	495046	3761816	2.21E-07	30YrCance	2.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
783	ALL	495066	3761816	2.11E-07	30YrCance	2.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
784	ALL	495086	3761816	2.02E-07	30YrCance	2.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
785	ALL	495106	3761816	1.93E-07	30YrCance	1.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
786	ALL	495126	3761816	1.85E-07	30YrCance	1.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
787	ALL	495146	3761816	1.77E-07	30YrCance	1.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
788	ALL	495166	3761816	1.70E-07	30YrCance	1.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
789	ALL	495186	3761816	1.64E-07	30YrCance	1.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
790	ALL	495206	3761816	1.59E-07	30YrCance	1.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
791	ALL	495226	3761816	1.53E-07	30YrCance	1.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
792	ALL	495246	3761816	1.48E-07	30YrCance	1.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
793	ALL	495266	3761816	1.43E-07	30YrCance	1.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
794	ALL	495286	3761816	1.38E-07	30YrCance	1.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
795	ALL	495306	3761816	1.34E-07	30YrCance	1.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
796	ALL	495326	3761816	1.30E-07	30YrCance	1.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
797	ALL	495346	3761816	1.25E-07	30YrCance	1.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
798	ALL	495366	3761816	1.21E-07	30YrCance	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

799	ALL	495386	3761816	1.18E-07	30YrCance	1.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
800	ALL	495406	3761816	1.14E-07	30YrCance	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
801	ALL	495426	3761816	1.11E-07	30YrCance	1.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
802	ALL	495446	3761816	1.08E-07	30YrCance	1.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
803	ALL	495466	3761816	1.05E-07	30YrCance	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
804	ALL	495486	3761816	1.02E-07	30YrCance	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
805	ALL	495506	3761816	9.91E-08	30YrCance	9.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
806	ALL	495526	3761816	9.63E-08	30YrCance	9.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
807	ALL	495546	3761816	9.36E-08	30YrCance	9.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
808	ALL	495566	3761816	9.09E-08	30YrCance	9.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
809	ALL	495126	3761836	1.76E-07	30YrCance	1.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
810	ALL	495146	3761836	1.69E-07	30YrCance	1.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
811	ALL	495166	3761836	1.63E-07	30YrCance	1.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
812	ALL	495186	3761836	1.57E-07	30YrCance	1.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
813	ALL	495206	3761836	1.52E-07	30YrCance	1.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
814	ALL	495226	3761836	1.46E-07	30YrCance	1.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
815	ALL	495366	3761836	1.16E-07	30YrCance	1.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
816	ALL	495386	3761836	1.13E-07	30YrCance	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
817	ALL	495406	3761836	1.10E-07	30YrCance	1.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
818	ALL	495426	3761836	1.07E-07	30YrCance	1.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
819	ALL	495446	3761836	1.04E-07	30YrCance	1.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
820	ALL	495466	3761836	1.01E-07	30YrCance	1.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
821	ALL	495486	3761836	9.83E-08	30YrCance	9.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
822	ALL	495506	3761836	9.55E-08	30YrCance	9.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
823	ALL	495526	3761836	9.28E-08	30YrCance	9.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
824	ALL	495546	3761836	9.01E-08	30YrCance	9.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
825	ALL	495566	3761836	8.75E-08	30YrCance	8.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
826	ALL	495126	3761856	1.68E-07	30YrCance	1.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
827	ALL	495146	3761856	1.62E-07	30YrCance	1.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
828	ALL	495166	3761856	1.56E-07	30YrCance	1.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
829	ALL	495186	3761856	1.51E-07	30YrCance	1.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
830	ALL	495206	3761856	1.45E-07	30YrCance	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
831	ALL	495226	3761856	1.40E-07	30YrCance	1.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
832	ALL	495386	3761856	1.09E-07	30YrCance	1.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
833	ALL	495406	3761856	1.06E-07	30YrCance	1.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
834	ALL	495426	3761856	1.03E-07	30YrCance	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
835	ALL	495446	3761856	1.01E-07	30YrCance	1.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
836	ALL	495466	3761856	9.77E-08	30YrCance	9.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
837	ALL	495486	3761856	9.50E-08	30YrCance	9.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
838	ALL	495506	3761856	9.24E-08	30YrCance	9.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
839	ALL	495526	3761856	8.97E-08	30YrCance	8.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
840	ALL	495546	3761856	8.69E-08	30YrCance	8.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
841	ALL	495566	3761856	8.42E-08	30YrCance	8.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
842	ALL	495126	3761876	1.61E-07	30YrCance	1.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
843	ALL	495146	3761876	1.55E-07	30YrCance	1.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
844	ALL	495166	3761876	1.49E-07	30YrCance	1.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
845	ALL	495186	3761876	1.44E-07	30YrCance	1.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

846	ALL	495206	3761876	1.39E-07	30YrCance	1.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
847	ALL	495226	3761876	1.34E-07	30YrCance	1.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
848	ALL	495386	3761876	1.05E-07	30YrCance	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
849	ALL	495406	3761876	1.02E-07	30YrCance	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
850	ALL	495426	3761876	9.98E-08	30YrCance	9.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
851	ALL	495446	3761876	9.72E-08	30YrCance	9.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
852	ALL	495466	3761876	9.46E-08	30YrCance	9.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
853	ALL	495486	3761876	9.20E-08	30YrCance	9.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
854	ALL	495506	3761876	8.95E-08	30YrCance	8.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
855	ALL	495526	3761876	8.69E-08	30YrCance	8.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
856	ALL	495546	3761876	8.41E-08	30YrCance	8.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
857	ALL	495566	3761876	8.14E-08	30YrCance	8.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
858	ALL	495126	3761896	1.55E-07	30YrCance	1.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
859	ALL	495146	3761896	1.49E-07	30YrCance	1.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
860	ALL	495166	3761896	1.43E-07	30YrCance	1.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
861	ALL	495186	3761896	1.38E-07	30YrCance	1.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
862	ALL	495206	3761896	1.33E-07	30YrCance	1.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
863	ALL	495226	3761896	1.29E-07	30YrCance	1.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
864	ALL	495386	3761896	1.01E-07	30YrCance	1.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
865	ALL	495406	3761896	9.90E-08	30YrCance	9.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
866	ALL	495426	3761896	9.65E-08	30YrCance	9.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
867	ALL	495446	3761896	9.40E-08	30YrCance	9.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
868	ALL	495466	3761896	9.16E-08	30YrCance	9.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
869	ALL	495486	3761896	8.92E-08	30YrCance	8.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
870	ALL	495506	3761896	8.69E-08	30YrCance	8.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
871	ALL	495526	3761896	8.44E-08	30YrCance	8.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
872	ALL	495546	3761896	8.17E-08	30YrCance	8.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
873	ALL	495566	3761896	7.89E-08	30YrCance	7.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
874	ALL	495586	3761896	7.68E-08	30YrCance	7.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
875	ALL	495126	3761916	1.49E-07	30YrCance	1.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
876	ALL	495146	3761916	1.43E-07	30YrCance	1.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
877	ALL	495166	3761916	1.38E-07	30YrCance	1.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
878	ALL	495186	3761916	1.33E-07	30YrCance	1.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
879	ALL	495206	3761916	1.29E-07	30YrCance	1.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
880	ALL	495226	3761916	1.24E-07	30YrCance	1.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
881	ALL	495386	3761916	9.76E-08	30YrCance	9.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
882	ALL	495406	3761916	9.53E-08	30YrCance	9.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
883	ALL	495426	3761916	9.30E-08	30YrCance	9.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
884	ALL	495446	3761916	9.07E-08	30YrCance	9.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
885	ALL	495466	3761916	8.84E-08	30YrCance	8.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
886	ALL	495486	3761916	8.61E-08	30YrCance	8.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
887	ALL	495506	3761916	8.38E-08	30YrCance	8.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
888	ALL	495526	3761916	8.14E-08	30YrCance	8.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
889	ALL	495546	3761916	7.89E-08	30YrCance	7.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
890	ALL	495566	3761916	7.64E-08	30YrCance	7.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
891	ALL	495586	3761916	7.44E-08	30YrCance	7.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
892	ALL	495126	3761936	1.43E-07	30YrCance	1.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

893	ALL	495146	3761936	1.38E-07	30YrCance	1.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
894	ALL	495166	3761936	1.33E-07	30YrCance	1.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
895	ALL	495186	3761936	1.29E-07	30YrCance	1.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
896	ALL	495206	3761936	1.24E-07	30YrCance	1.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
897	ALL	495226	3761936	1.20E-07	30YrCance	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
898	ALL	495146	3761956	1.33E-07	30YrCance	1.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
899	ALL	495166	3761956	1.28E-07	30YrCance	1.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
900	ALL	495186	3761956	1.25E-07	30YrCance	1.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
901	ALL	495206	3761956	1.20E-07	30YrCance	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
902	ALL	495226	3761956	1.16E-07	30YrCance	1.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL	495146	3761976	1.29E-07	30YrCance	1.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
904	ALL	495166	3761976	1.24E-07	30YrCance	1.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
905	ALL	495186	3761976	1.20E-07	30YrCance	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
906	ALL	495206	3761976	1.16E-07	30YrCance	1.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
907	ALL	495226	3761976	1.12E-07	30YrCance	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
908	ALL	495146	3761996	1.24E-07	30YrCance	1.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
909	ALL	495166	3761996	1.20E-07	30YrCance	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
910	ALL	495186	3761996	1.16E-07	30YrCance	1.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
911	ALL	495206	3761996	1.12E-07	30YrCance	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
912	ALL	495226	3761996	1.09E-07	30YrCance	1.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
913	ALL	495146	3762016	1.20E-07	30YrCance	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
914	ALL	495166	3762016	1.16E-07	30YrCance	1.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
915	ALL	495186	3762016	1.12E-07	30YrCance	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
916	ALL	495206	3762016	1.08E-07	30YrCance	1.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
917	ALL	495226	3762016	1.05E-07	30YrCance	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
918	ALL	495146	3762036	1.16E-07	30YrCance	1.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
919	ALL	495166	3762036	1.12E-07	30YrCance	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
920	ALL	495186	3762036	1.08E-07	30YrCance	1.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
921	ALL	495206	3762036	1.05E-07	30YrCance	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
922	ALL	495226	3762036	1.01E-07	30YrCance	1.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
923	ALL	495146	3762056	1.12E-07	30YrCance	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
924	ALL	495166	3762056	1.08E-07	30YrCance	1.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
925	ALL	495186	3762056	1.05E-07	30YrCance	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
926	ALL	495206	3762056	1.01E-07	30YrCance	1.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
927	ALL	495226	3762056	9.81E-08	30YrCance	9.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
928	ALL	494031.1	3761757	3.31E-07	30YrCance	3.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
929	ALL	494022.5	3761743	3.32E-07	30YrCance	3.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
930	ALL	494020.5	3761734	3.35E-07	30YrCance	3.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
931	ALL	494013.4	3761724	3.35E-07	30YrCance	3.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
932	ALL	494002.7	3761712	3.32E-07	30YrCance	3.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
933	ALL	493991.6	3761703	3.26E-07	30YrCance	3.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
934	ALL	493980.4	3761693	3.21E-07	30YrCance	3.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
935	ALL	493969.8	3761686	3.15E-07	30YrCance	3.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
936	ALL	493957.6	3761681	3.07E-07	30YrCance	3.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
937	ALL	493943.9	3761674	2.98E-07	30YrCance	2.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
938	ALL	493926.2	3761673	2.85E-07	30YrCance	2.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
939	ALL	493913.5	3761671	2.77E-07	30YrCance	2.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

940	ALL	493899.8	3761670	2.68E-07	30YrCance	2.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
941	ALL	493832.4	3761639	2.35E-07	30YrCance	2.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
942	ALL	493822.8	3761647	2.29E-07	30YrCance	2.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
943	ALL	493811.1	3761658	2.21E-07	30YrCance	2.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
944	ALL	493809.6	3761669	2.18E-07	30YrCance	2.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
945	ALL	493817.7	3761682	2.19E-07	30YrCance	2.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
946	ALL	493833.4	3761690	2.26E-07	30YrCance	2.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
947	ALL	493853.7	3761695	2.35E-07	30YrCance	2.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
948	ALL	493871.5	3761693	2.45E-07	30YrCance	2.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
949	ALL	493888.2	3761693	2.55E-07	30YrCance	2.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
950	ALL	493905.9	3761694	2.65E-07	30YrCance	2.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
951	ALL	493920.6	3761695	2.75E-07	30YrCance	2.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
952	ALL	493939.4	3761698	2.87E-07	30YrCance	2.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
953	ALL	493959.6	3761707	2.99E-07	30YrCance	2.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
954	ALL	493975.4	3761717	3.06E-07	30YrCance	3.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
955	ALL	493983.5	3761726	3.09E-07	30YrCance	3.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
956	ALL	493991.1	3761738	3.09E-07	30YrCance	3.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
957	ALL	494001.2	3761754	3.09E-07	30YrCance	3.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
958	ALL	493984.5	3761753	2.97E-07	30YrCance	2.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
959	ALL	493980.4	3761747	2.97E-07	30YrCance	2.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
960	ALL	493970.8	3761735	2.95E-07	30YrCance	2.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
961	ALL	493953.6	3761728	2.85E-07	30YrCance	2.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
962	ALL	493937.3	3761717	2.78E-07	30YrCance	2.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
963	ALL	493921.1	3761715	2.68E-07	30YrCance	2.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
964	ALL	493906.9	3761711	2.61E-07	30YrCance	2.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
965	ALL	493887.2	3761711	2.49E-07	30YrCance	2.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
966	ALL	493870.4	3761711	2.40E-07	30YrCance	2.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL	493857.8	3761711	2.33E-07	30YrCance	2.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
968	ALL	493843.1	3761710	2.26E-07	30YrCance	2.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
969	ALL	493829.4	3761710	2.19E-07	30YrCance	2.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
970	ALL	493806.6	3761701	2.10E-07	30YrCance	2.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
971	ALL	493799.5	3761684	2.10E-07	30YrCance	2.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
972	ALL	493797.5	3761663	2.13E-07	30YrCance	2.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
973	ALL	493779.7	3761668	2.04E-07	30YrCance	2.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
974	ALL	493775.1	3761688	1.99E-07	30YrCance	1.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
975	ALL	493782.8	3761700	2.00E-07	30YrCance	2.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
976	ALL	493793.4	3761717	2.01E-07	30YrCance	2.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
977	ALL	493809.1	3761731	2.05E-07	30YrCance	2.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
978	ALL	493821.3	3761732	2.10E-07	30YrCance	2.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
979	ALL	493843.6	3761731	2.21E-07	30YrCance	2.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
980	ALL	493875	3761734	2.36E-07	30YrCance	2.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
981	ALL	493883.6	3761733	2.40E-07	30YrCance	2.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
982	ALL	493904.9	3761735	2.52E-07	30YrCance	2.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
983	ALL	493928.7	3761736	2.66E-07	30YrCance	2.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
984	ALL	493941.4	3761746	2.70E-07	30YrCance	2.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
985	ALL	493954.1	3761758	2.74E-07	30YrCance	2.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
986	ALL	493931.8	3761757	2.60E-07	30YrCance	2.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

987	ALL	493915.5	3761755	2.51E-07	30YrCance	2.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
988	ALL	493903.4	3761754	2.45E-07	30YrCance	2.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
989	ALL	493888.7	3761754	2.37E-07	30YrCance	2.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
990	ALL	493873	3761754	2.29E-07	30YrCance	2.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
991	ALL	493851.7	3761754	2.18E-07	30YrCance	2.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
992	ALL	493835.5	3761752	2.12E-07	30YrCance	2.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
993	ALL	493818.7	3761751	2.04E-07	30YrCance	2.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
994	ALL	493742.2	3761651	1.89E-07	30YrCance	1.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
995	ALL	493742.2	3761665	1.87E-07	30YrCance	1.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
996	ALL	493742.2	3761680	1.85E-07	30YrCance	1.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
997	ALL	493746.3	3761695	1.85E-07	30YrCance	1.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
998	ALL	493750.3	3761709	1.85E-07	30YrCance	1.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
999	ALL	493754.9	3761721	1.85E-07	30YrCance	1.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1000	ALL	493757.9	3761733	1.84E-07	30YrCance	1.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1001	ALL	493772.1	3761750	1.86E-07	30YrCance	1.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1002	ALL	493760.4	3761749	1.82E-07	30YrCance	1.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1003	ALL	493749.3	3761749	1.78E-07	30YrCance	1.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1004	ALL	493730.5	3761749	1.72E-07	30YrCance	1.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1005	ALL	493705.7	3761747	1.64E-07	30YrCance	1.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1006	ALL	493712.8	3761771	1.62E-07	30YrCance	1.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1007	ALL	493739.7	3761768	1.71E-07	30YrCance	1.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1008	ALL	493757.4	3761769	1.77E-07	30YrCance	1.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1009	ALL	493780.2	3761771	1.85E-07	30YrCance	1.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1010	ALL	493801.5	3761770	1.93E-07	30YrCance	1.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1011	ALL	493830.9	3761773	2.04E-07	30YrCance	2.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1012	ALL	493850.7	3761774	2.12E-07	30YrCance	2.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1013	ALL	493872.5	3761774	2.23E-07	30YrCance	2.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1014	ALL	493893.8	3761777	2.33E-07	30YrCance	2.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1015	ALL	493908.5	3761776	2.41E-07	30YrCance	2.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1016	ALL	493926.2	3761780	2.49E-07	30YrCance	2.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1017	ALL	493937.8	3761779	2.56E-07	30YrCance	2.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1018	ALL	493952.5	3761780	2.64E-07	30YrCance	2.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1019	ALL	493967.8	3761780	2.74E-07	30YrCance	2.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1020	ALL	493975.4	3761784	2.77E-07	30YrCance	2.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1021	ALL	493989.5	3761780	2.88E-07	30YrCance	2.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1022	ALL	494000.2	3761782	2.94E-07	30YrCance	2.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1023	ALL	494014.9	3761785	3.03E-07	30YrCance	3.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1024	ALL	494027.1	3761786	3.11E-07	30YrCance	3.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1025	ALL	494049.4	3761786	3.29E-07	30YrCance	3.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1026	ALL	494066.1	3761786	3.42E-07	30YrCance	3.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1027	ALL	494171.4	3761821	4.11E-07	30YrCance	4.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1028	ALL	494176.5	3761841	3.94E-07	30YrCance	3.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1029	ALL	494171.4	3761886	3.45E-07	30YrCance	3.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1030	ALL	494831.5	3761815	4.07E-07	30YrCance	4.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1031	ALL	494846.3	3761570	1.01E-06	30YrCance	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1032	ALL	494859.8	3761515	1.02E-06	30YrCance	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1033	ALL	494839.6	3761452	1.30E-06	30YrCance	1.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1034 ALL	494863.6	3761459	1.09E-06	30YrCance	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1035 ALL	494888	3761461	9.46E-07	30YrCance	9.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1036 ALL	494935.8	3761473	7.43E-07	30YrCance	7.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1037 ALL	494961.9	3761422	7.30E-07	30YrCance	7.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1038 ALL	494996.5	3761368	6.76E-07	30YrCance	6.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1039 ALL	494991.5	3761327	6.97E-07	30YrCance	6.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1040 ALL	495039.8	3761351	5.92E-07	30YrCance	5.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1041 ALL	495133.9	3761336	4.19E-07	30YrCance	4.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1042 ALL	495229.3	3761326	3.47E-07	30YrCance	3.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1043 ALL	495414.8	3761335	2.38E-07	30YrCance	2.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1044 ALL	495539.8	3761406	1.85E-07	30YrCance	1.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1045 ALL	495545.2	3761698	1.15E-07	30YrCance	1.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1046 ALL	495576.1	3761784	9.47E-08	30YrCance	9.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1047 ALL	495589.5	3761934	7.21E-08	30YrCance	7.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1048 ALL	495387.9	3761934	9.43E-08	30YrCance	9.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1049 ALL	495359.7	3761828	1.20E-07	30YrCance	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1050 ALL	495237.4	3761820	1.49E-07	30YrCance	1.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1051 ALL	495237.4	3762073	9.38E-08	30YrCance	9.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1052 ALL	495127.2	3762069	1.13E-07	30YrCance	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1053 ALL	495124.5	3761819	1.84E-07	30YrCance	1.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEET	ENDO	BLOOD	ODOR	GENERAL	MAXHI
1	ALL		495006	3761336	NonCancer	0.00E+00	0.00E+00	3.40E-04	0.00E+00	0.00E+00	3.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-04	0.00E+00	0.00E+00	3.40E-04
2	ALL		495146	3761336	NonCancer	0.00E+00	0.00E+00	1.95E-04	0.00E+00	0.00E+00	1.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04	0.00E+00	0.00E+00	1.95E-04
3	ALL		495166	3761336	NonCancer	0.00E+00	0.00E+00	1.89E-04	0.00E+00	0.00E+00	1.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	0.00E+00	0.00E+00	1.89E-04
4	ALL		495186	3761336	NonCancer	0.00E+00	0.00E+00	1.92E-04	0.00E+00	0.00E+00	1.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04	0.00E+00	0.00E+00	1.92E-04
5	ALL		495206	3761336	NonCancer	0.00E+00	0.00E+00	1.93E-04	0.00E+00	0.00E+00	1.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04	0.00E+00	0.00E+00	1.93E-04
6	ALL		495226	3761336	NonCancer	0.00E+00	0.00E+00	1.92E-04	0.00E+00	0.00E+00	1.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04	0.00E+00	0.00E+00	1.92E-04
7	ALL		495246	3761336	NonCancer	0.00E+00	0.00E+00	1.89E-04	0.00E+00	0.00E+00	1.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	0.00E+00	0.00E+00	1.89E-04
8	ALL		495266	3761336	NonCancer	0.00E+00	0.00E+00	1.91E-04	0.00E+00	0.00E+00	1.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04	0.00E+00	0.00E+00	1.91E-04
9	ALL		495286	3761336	NonCancer	0.00E+00	0.00E+00	2.32E-04	0.00E+00	0.00E+00	2.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04	0.00E+00	0.00E+00	2.32E-04
10	ALL		495306	3761336	NonCancer	0.00E+00	0.00E+00	2.60E-04	0.00E+00	0.00E+00	2.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04	0.00E+00	0.00E+00	2.60E-04
11	ALL		495326	3761336	NonCancer	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	2.75E-04
12	ALL		495346	3761336	NonCancer	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	2.73E-04
13	ALL		495366	3761336	NonCancer	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	2.78E-04
14	ALL		495386	3761336	NonCancer	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	2.75E-04
15	ALL		495406	3761336	NonCancer	0.00E+00	0.00E+00	2.67E-04	0.00E+00	0.00E+00	2.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-04	0.00E+00	0.00E+00	2.67E-04
16	ALL		495006	3761356	NonCancer	0.00E+00	0.00E+00	3.48E-04	0.00E+00	0.00E+00	3.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-04	0.00E+00	0.00E+00	3.48E-04
17	ALL		495026	3761356	NonCancer	0.00E+00	0.00E+00	3.53E-04	0.00E+00	0.00E+00	3.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-04	0.00E+00	0.00E+00	3.53E-04
18	ALL		495046	3761356	NonCancer	0.00E+00	0.00E+00	3.44E-04	0.00E+00	0.00E+00	3.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-04	0.00E+00	0.00E+00	3.44E-04
19	ALL		495066	3761356	NonCancer	0.00E+00	0.00E+00	3.18E-04	0.00E+00	0.00E+00	3.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-04	0.00E+00	0.00E+00	3.18E-04
20	ALL		495086	3761356	NonCancer	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	2.46E-04
21	ALL		495106	3761356	NonCancer	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	2.17E-04
22	ALL		495126	3761356	NonCancer	0.00E+00	0.00E+00	2.07E-04	0.00E+00	0.00E+00	2.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04	0.00E+00	0.00E+00	2.07E-04
23	ALL		495146	3761356	NonCancer	0.00E+00	0.00E+00	2.12E-04	0.00E+00	0.00E+00	2.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04	0.00E+00	0.00E+00	2.12E-04
24	ALL		495166	3761356	NonCancer	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	2.17E-04
25	ALL		495186	3761356	NonCancer	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	2.17E-04
26	ALL		495206	3761356	NonCancer	0.00E+00	0.00E+00	2.14E-04	0.00E+00	0.00E+00	2.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04	0.00E+00	0.00E+00	2.14E-04
27	ALL		495226	3761356	NonCancer	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	2.13E-04
28	ALL		495246	3761356	NonCancer	0.00E+00	0.00E+00	2.14E-04	0.00E+00	0.00E+00	2.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04	0.00E+00	0.00E+00	2.14E-04
29	ALL		495266	3761356	NonCancer	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	2.15E-04
30	ALL		495286	3761356	NonCancer	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	2.52E-04
31	ALL		495306	3761356	NonCancer	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	2.75E-04
32	ALL		495326	3761356	NonCancer	0.00E+00	0.00E+00	2.76E-04	0.00E+00	0.00E+00	2.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04	0.00E+00	0.00E+00	2.76E-04
33	ALL		495346	3761356	NonCancer	0.00E+00	0.00E+00	2.67E-04	0.00E+00	0.00E+00	2.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-04	0.00E+00	0.00E+00	2.67E-04
34	ALL		495366	3761356	NonCancer	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	2.64E-04
35	ALL		495386	3761356	NonCancer	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	2.64E-04
36	ALL		495406	3761356	NonCancer	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	2.62E-04
37	ALL		495426	3761356	NonCancer	0.00E+00	0.00E+00	2.59E-04	0.00E+00	0.00E+00	2.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-04	0.00E+00	0.00E+00	2.59E-04
38	ALL		495446	3761356	NonCancer	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	2.56E-04
39	ALL		495006	3761376	NonCancer	0.00E+00	0.00E+00	3.72E-04	0.00E+00	0.00E+00	3.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-04	0.00E+00	0.00E+00	3.72E-04
40	ALL		495026	3761376	NonCancer	0.00E+00	0.00E+00	3.69E-04	0.00E+00	0.00E+00	3.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-04	0.00E+00	0.00E+00	3.69E-04
41	ALL		495046	3761376	NonCancer	0.00E+00	0.00E+00	3.57E-04	0.00E+00	0.00E+00	3.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-04	0.00E+00	0.00E+00	3.57E-04
42	ALL		495066	3761376	NonCancer	0.00E+00	0.00E+00	3.36E-04	0.00E+00	0.00E+00	3.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-04	0.00E+00	0.00E+00	3.36E-04
43	ALL		495086	3761376	NonCancer	0.00E+00	0.00E+00	3.00E-04	0.00E+00	0.00E+00	3.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04	0.00E+00	0.00E+00	3.00E-04
44	ALL		495106	3761376	NonCancer	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	2.68E-04
45	ALL		495126	3761376	NonCancer	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	2.53E-04
46	ALL		495146	3761376	NonCancer	0.00E+00	0.00E+00	2.48E-04	0.00E+00	0.00E+00	2.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04	0.00E+00	0.00E+00	2.48E-04
47	ALL		495166	3761376	NonCancer	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	2.41E-04
48	ALL		495186	3761376	NonCancer	0.00E+00	0.00E+00	2.32E-04	0.00E+00	0.00E+00	2.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04	0.00E+00	0.00E+00	2.32E-04
49	ALL		495206	3761376	NonCancer	0.00E+00	0.00E+00	2.25E-04	0.00E+00	0.00E+00	2.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04	0.00E+00	0.00E+00	2.25E-04
50	ALL		495226	3761376	NonCancer	0.00E+00	0.00E+00	2.24E-04	0.00E+00	0.00E+00	2.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-04	0.00E+00	0.00E+00	2.24E-04
51	ALL		495246	3761376	NonCancer	0.00E+00	0.00E+00	2.27E-04	0.00E+00	0.00E+00	2.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-04	0.00E+00	0.00E+00	2.27E-04

52	ALL	495266	3761376	NonCancer	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	2.34E-04
53	ALL	495286	3761376	NonCancer	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	2.61E-04
54	ALL	495306	3761376	NonCancer	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	2.70E-04
55	ALL	495326	3761376	NonCancer	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	2.70E-04
56	ALL	495346	3761376	NonCancer	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	2.65E-04
57	ALL	495366	3761376	NonCancer	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	2.63E-04
58	ALL	495386	3761376	NonCancer	0.00E+00	0.00E+00	2.60E-04	0.00E+00	0.00E+00	2.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04	0.00E+00	0.00E+00	2.60E-04
59	ALL	495406	3761376	NonCancer	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	2.55E-04
60	ALL	495426	3761376	NonCancer	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	2.51E-04
61	ALL	495446	3761376	NonCancer	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	2.46E-04
62	ALL	495466	3761376	NonCancer	0.00E+00	0.00E+00	2.38E-04	0.00E+00	0.00E+00	2.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04	0.00E+00	0.00E+00	2.38E-04
63	ALL	495486	3761376	NonCancer	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	2.28E-04
64	ALL	494986	3761396	NonCancer	0.00E+00	0.00E+00	3.79E-04	0.00E+00	0.00E+00	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-04	0.00E+00	0.00E+00	3.79E-04
65	ALL	495006	3761396	NonCancer	0.00E+00	0.00E+00	3.69E-04	0.00E+00	0.00E+00	3.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-04	0.00E+00	0.00E+00	3.69E-04
66	ALL	495026	3761396	NonCancer	0.00E+00	0.00E+00	3.63E-04	0.00E+00	0.00E+00	3.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-04	0.00E+00	0.00E+00	3.63E-04
67	ALL	495046	3761396	NonCancer	0.00E+00	0.00E+00	3.57E-04	0.00E+00	0.00E+00	3.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-04	0.00E+00	0.00E+00	3.57E-04
68	ALL	495066	3761396	NonCancer	0.00E+00	0.00E+00	3.47E-04	0.00E+00	0.00E+00	3.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-04	0.00E+00	0.00E+00	3.47E-04
69	ALL	495086	3761396	NonCancer	0.00E+00	0.00E+00	3.24E-04	0.00E+00	0.00E+00	3.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-04	0.00E+00	0.00E+00	3.24E-04
70	ALL	495106	3761396	NonCancer	0.00E+00	0.00E+00	2.89E-04	0.00E+00	0.00E+00	2.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-04	0.00E+00	0.00E+00	2.89E-04
71	ALL	495126	3761396	NonCancer	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	2.71E-04
72	ALL	495146	3761396	NonCancer	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	2.61E-04
73	ALL	495166	3761396	NonCancer	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	2.50E-04
74	ALL	495186	3761396	NonCancer	0.00E+00	0.00E+00	2.43E-04	0.00E+00	0.00E+00	2.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04	0.00E+00	0.00E+00	2.43E-04
75	ALL	495206	3761396	NonCancer	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	2.40E-04
76	ALL	495226	3761396	NonCancer	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	2.47E-04
77	ALL	495246	3761396	NonCancer	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	2.58E-04
78	ALL	495266	3761396	NonCancer	0.00E+00	0.00E+00	2.59E-04	0.00E+00	0.00E+00	2.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-04	0.00E+00	0.00E+00	2.59E-04
79	ALL	495286	3761396	NonCancer	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	2.65E-04
80	ALL	495306	3761396	NonCancer	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	2.65E-04
81	ALL	495326	3761396	NonCancer	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	2.62E-04
82	ALL	495346	3761396	NonCancer	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	2.57E-04
83	ALL	495366	3761396	NonCancer	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	2.50E-04
84	ALL	495386	3761396	NonCancer	0.00E+00	0.00E+00	2.42E-04	0.00E+00	0.00E+00	2.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-04	0.00E+00	0.00E+00	2.42E-04
85	ALL	495406	3761396	NonCancer	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	2.34E-04
86	ALL	495426	3761396	NonCancer	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	2.36E-04
87	ALL	495446	3761396	NonCancer	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	2.39E-04
88	ALL	495466	3761396	NonCancer	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	2.40E-04
89	ALL	495486	3761396	NonCancer	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	2.39E-04
90	ALL	495506	3761396	NonCancer	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	2.36E-04
91	ALL	494966	3761416	NonCancer	0.00E+00	0.00E+00	4.06E-04	0.00E+00	0.00E+00	4.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-04	0.00E+00	0.00E+00	4.06E-04
92	ALL	494986	3761416	NonCancer	0.00E+00	0.00E+00	3.96E-04	0.00E+00	0.00E+00	3.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-04	0.00E+00	0.00E+00	3.96E-04
93	ALL	495006	3761416	NonCancer	0.00E+00	0.00E+00	3.83E-04	0.00E+00	0.00E+00	3.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-04	0.00E+00	0.00E+00	3.83E-04
94	ALL	495026	3761416	NonCancer	0.00E+00	0.00E+00	3.67E-04	0.00E+00	0.00E+00	3.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-04	0.00E+00	0.00E+00	3.67E-04
95	ALL	495046	3761416	NonCancer	0.00E+00	0.00E+00	3.58E-04	0.00E+00	0.00E+00	3.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-04	0.00E+00	0.00E+00	3.58E-04
96	ALL	495066	3761416	NonCancer	0.00E+00	0.00E+00	3.52E-04	0.00E+00	0.00E+00	3.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-04	0.00E+00	0.00E+00	3.52E-04
97	ALL	495086	3761416	NonCancer	0.00E+00	0.00E+00	3.34E-04	0.00E+00	0.00E+00	3.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-04	0.00E+00	0.00E+00	3.34E-04
98	ALL	495106	3761416	NonCancer	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	3.06E-04
99	ALL	495126	3761416	NonCancer	0.00E+00	0.00E+00	2.92E-04	0.00E+00	0.00E+00	2.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-04	0.00E+00	0.00E+00	2.92E-04
100	ALL	495146	3761416	NonCancer	0.00E+00	0.00E+00	2.82E-04	0.00E+00	0.00E+00	2.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-04	0.00E+00	0.00E+00	2.82E-04
101	ALL	495166	3761416	NonCancer	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	2.72E-04
102	ALL	495186	3761416	NonCancer	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	2.61E-04
103	ALL	495206	3761416	NonCancer	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	2.53E-04

104	ALL	495226	3761416	NonCancer	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	2.54E-04
105	ALL	495246	3761416	NonCancer	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	2.57E-04
106	ALL	495266	3761416	NonCancer	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	2.54E-04
107	ALL	495286	3761416	NonCancer	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	2.52E-04
108	ALL	495306	3761416	NonCancer	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	2.52E-04
109	ALL	495326	3761416	NonCancer	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	2.55E-04
110	ALL	495346	3761416	NonCancer	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	2.62E-04
111	ALL	495366	3761416	NonCancer	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	2.62E-04
112	ALL	495386	3761416	NonCancer	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	2.62E-04
113	ALL	495406	3761416	NonCancer	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	2.62E-04
114	ALL	495426	3761416	NonCancer	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	2.61E-04
115	ALL	495446	3761416	NonCancer	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	2.61E-04
116	ALL	495466	3761416	NonCancer	0.00E+00	0.00E+00	2.59E-04	0.00E+00	0.00E+00	2.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-04	0.00E+00	0.00E+00	2.59E-04
117	ALL	495486	3761416	NonCancer	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	2.55E-04
118	ALL	495506	3761416	NonCancer	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	2.51E-04
119	ALL	495526	3761416	NonCancer	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	2.45E-04
120	ALL	494966	3761436	NonCancer	0.00E+00	0.00E+00	4.04E-04	0.00E+00	0.00E+00	4.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-04	0.00E+00	0.00E+00	4.04E-04
121	ALL	494986	3761436	NonCancer	0.00E+00	0.00E+00	3.87E-04	0.00E+00	0.00E+00	3.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-04	0.00E+00	0.00E+00	3.87E-04
122	ALL	495006	3761436	NonCancer	0.00E+00	0.00E+00	3.76E-04	0.00E+00	0.00E+00	3.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-04	0.00E+00	0.00E+00	3.76E-04
123	ALL	495026	3761436	NonCancer	0.00E+00	0.00E+00	3.66E-04	0.00E+00	0.00E+00	3.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-04	0.00E+00	0.00E+00	3.66E-04
124	ALL	495046	3761436	NonCancer	0.00E+00	0.00E+00	3.58E-04	0.00E+00	0.00E+00	3.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-04	0.00E+00	0.00E+00	3.58E-04
125	ALL	495066	3761436	NonCancer	0.00E+00	0.00E+00	3.51E-04	0.00E+00	0.00E+00	3.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-04	0.00E+00	0.00E+00	3.51E-04
126	ALL	495086	3761436	NonCancer	0.00E+00	0.00E+00	3.40E-04	0.00E+00	0.00E+00	3.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-04	0.00E+00	0.00E+00	3.40E-04
127	ALL	495106	3761436	NonCancer	0.00E+00	0.00E+00	3.23E-04	0.00E+00	0.00E+00	3.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-04	0.00E+00	0.00E+00	3.23E-04
128	ALL	495126	3761436	NonCancer	0.00E+00	0.00E+00	3.04E-04	0.00E+00	0.00E+00	3.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-04	0.00E+00	0.00E+00	3.04E-04
129	ALL	495146	3761436	NonCancer	0.00E+00	0.00E+00	2.85E-04	0.00E+00	0.00E+00	2.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-04	0.00E+00	0.00E+00	2.85E-04
130	ALL	495166	3761436	NonCancer	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	2.74E-04
131	ALL	495186	3761436	NonCancer	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	2.68E-04
132	ALL	495206	3761436	NonCancer	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	2.64E-04
133	ALL	495226	3761436	NonCancer	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	2.66E-04
134	ALL	495246	3761436	NonCancer	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	2.71E-04
135	ALL	495266	3761436	NonCancer	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	2.68E-04
136	ALL	495286	3761436	NonCancer	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	2.68E-04
137	ALL	495306	3761436	NonCancer	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	2.71E-04
138	ALL	495326	3761436	NonCancer	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	2.78E-04
139	ALL	495346	3761436	NonCancer	0.00E+00	0.00E+00	2.87E-04	0.00E+00	0.00E+00	2.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-04	0.00E+00	0.00E+00	2.87E-04
140	ALL	495366	3761436	NonCancer	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	2.84E-04
141	ALL	495386	3761436	NonCancer	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	2.78E-04
142	ALL	495406	3761436	NonCancer	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	2.73E-04
143	ALL	495426	3761436	NonCancer	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	2.68E-04
144	ALL	495446	3761436	NonCancer	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	2.63E-04
145	ALL	495466	3761436	NonCancer	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	2.57E-04
146	ALL	495486	3761436	NonCancer	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	2.51E-04
147	ALL	495506	3761436	NonCancer	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	2.45E-04
148	ALL	495526	3761436	NonCancer	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	2.40E-04
149	ALL	494846	3761456	NonCancer	0.00E+00	0.00E+00	5.14E-04	0.00E+00	0.00E+00	5.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-04	0.00E+00	0.00E+00	5.14E-04
150	ALL	494946	3761456	NonCancer	0.00E+00	0.00E+00	4.15E-04	0.00E+00	0.00E+00	4.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-04	0.00E+00	0.00E+00	4.15E-04
151	ALL	494966	3761456	NonCancer	0.00E+00	0.00E+00	4.09E-04	0.00E+00	0.00E+00	4.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-04	0.00E+00	0.00E+00	4.09E-04
152	ALL	494986	3761456	NonCancer	0.00E+00	0.00E+00	3.96E-04	0.00E+00	0.00E+00	3.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-04	0.00E+00	0.00E+00	3.96E-04
153	ALL	495006	3761456	NonCancer	0.00E+00	0.00E+00	3.78E-04	0.00E+00	0.00E+00	3.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-04	0.00E+00	0.00E+00	3.78E-04
154	ALL	495026	3761456	NonCancer	0.00E+00	0.00E+00	3.61E-04	0.00E+00	0.00E+00	3.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-04	0.00E+00	0.00E+00	3.61E-04
155	ALL	495046	3761456	NonCancer	0.00E+00	0.00E+00	3.48E-04	0.00E+00	0.00E+00	3.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-04	0.00E+00	0.00E+00	3.48E-04

156	ALL	495066	3761456	NonCancer	0.00E+00	0.00E+00	3.42E-04	0.00E+00	0.00E+00	3.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-04	0.00E+00	0.00E+00	3.42E-04
157	ALL	495086	3761456	NonCancer	0.00E+00	0.00E+00	3.36E-04	0.00E+00	0.00E+00	3.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-04	0.00E+00	0.00E+00	3.36E-04
158	ALL	495106	3761456	NonCancer	0.00E+00	0.00E+00	3.27E-04	0.00E+00	0.00E+00	3.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-04	0.00E+00	0.00E+00	3.27E-04
159	ALL	495126	3761456	NonCancer	0.00E+00	0.00E+00	3.17E-04	0.00E+00	0.00E+00	3.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04	0.00E+00	0.00E+00	3.17E-04
160	ALL	495146	3761456	NonCancer	0.00E+00	0.00E+00	3.04E-04	0.00E+00	0.00E+00	3.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-04	0.00E+00	0.00E+00	3.04E-04
161	ALL	495166	3761456	NonCancer	0.00E+00	0.00E+00	2.92E-04	0.00E+00	0.00E+00	2.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-04	0.00E+00	0.00E+00	2.92E-04
162	ALL	495186	3761456	NonCancer	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	2.86E-04
163	ALL	495206	3761456	NonCancer	0.00E+00	0.00E+00	2.82E-04	0.00E+00	0.00E+00	2.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-04	0.00E+00	0.00E+00	2.82E-04
164	ALL	495226	3761456	NonCancer	0.00E+00	0.00E+00	2.83E-04	0.00E+00	0.00E+00	2.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-04	0.00E+00	0.00E+00	2.83E-04
165	ALL	495246	3761456	NonCancer	0.00E+00	0.00E+00	2.91E-04	0.00E+00	0.00E+00	2.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-04	0.00E+00	0.00E+00	2.91E-04
166	ALL	495266	3761456	NonCancer	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	2.84E-04
167	ALL	495286	3761456	NonCancer	0.00E+00	0.00E+00	2.79E-04	0.00E+00	0.00E+00	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-04	0.00E+00	0.00E+00	2.79E-04
168	ALL	495306	3761456	NonCancer	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	2.78E-04
169	ALL	495326	3761456	NonCancer	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	2.81E-04
170	ALL	495346	3761456	NonCancer	0.00E+00	0.00E+00	2.85E-04	0.00E+00	0.00E+00	2.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-04	0.00E+00	0.00E+00	2.85E-04
171	ALL	495366	3761456	NonCancer	0.00E+00	0.00E+00	2.77E-04	0.00E+00	0.00E+00	2.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-04	0.00E+00	0.00E+00	2.77E-04
172	ALL	495386	3761456	NonCancer	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	2.73E-04
173	ALL	495406	3761456	NonCancer	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	2.70E-04
174	ALL	495426	3761456	NonCancer	0.00E+00	0.00E+00	2.67E-04	0.00E+00	0.00E+00	2.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-04	0.00E+00	0.00E+00	2.67E-04
175	ALL	495446	3761456	NonCancer	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	2.65E-04
176	ALL	495466	3761456	NonCancer	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	2.61E-04
177	ALL	495486	3761456	NonCancer	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	2.57E-04
178	ALL	495506	3761456	NonCancer	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	2.53E-04
179	ALL	495526	3761456	NonCancer	0.00E+00	0.00E+00	2.49E-04	0.00E+00	0.00E+00	2.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04	0.00E+00	0.00E+00	2.49E-04
180	ALL	494866	3761476	NonCancer	0.00E+00	0.00E+00	4.82E-04	0.00E+00	0.00E+00	4.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-04	0.00E+00	0.00E+00	4.82E-04
181	ALL	494886	3761476	NonCancer	0.00E+00	0.00E+00	4.67E-04	0.00E+00	0.00E+00	4.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-04	0.00E+00	0.00E+00	4.67E-04
182	ALL	494906	3761476	NonCancer	0.00E+00	0.00E+00	4.47E-04	0.00E+00	0.00E+00	4.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-04	0.00E+00	0.00E+00	4.47E-04
183	ALL	494926	3761476	NonCancer	0.00E+00	0.00E+00	4.25E-04	0.00E+00	0.00E+00	4.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-04	0.00E+00	0.00E+00	4.25E-04
184	ALL	494946	3761476	NonCancer	0.00E+00	0.00E+00	4.14E-04	0.00E+00	0.00E+00	4.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-04	0.00E+00	0.00E+00	4.14E-04
185	ALL	494966	3761476	NonCancer	0.00E+00	0.00E+00	4.05E-04	0.00E+00	0.00E+00	4.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-04	0.00E+00	0.00E+00	4.05E-04
186	ALL	494986	3761476	NonCancer	0.00E+00	0.00E+00	3.94E-04	0.00E+00	0.00E+00	3.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-04	0.00E+00	0.00E+00	3.94E-04
187	ALL	495006	3761476	NonCancer	0.00E+00	0.00E+00	3.80E-04	0.00E+00	0.00E+00	3.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-04	0.00E+00	0.00E+00	3.80E-04
188	ALL	495026	3761476	NonCancer	0.00E+00	0.00E+00	3.70E-04	0.00E+00	0.00E+00	3.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-04	0.00E+00	0.00E+00	3.70E-04
189	ALL	495046	3761476	NonCancer	0.00E+00	0.00E+00	3.63E-04	0.00E+00	0.00E+00	3.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-04	0.00E+00	0.00E+00	3.63E-04
190	ALL	495066	3761476	NonCancer	0.00E+00	0.00E+00	3.59E-04	0.00E+00	0.00E+00	3.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-04	0.00E+00	0.00E+00	3.59E-04
191	ALL	495086	3761476	NonCancer	0.00E+00	0.00E+00	3.53E-04	0.00E+00	0.00E+00	3.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-04	0.00E+00	0.00E+00	3.53E-04
192	ALL	495106	3761476	NonCancer	0.00E+00	0.00E+00	3.46E-04	0.00E+00	0.00E+00	3.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-04	0.00E+00	0.00E+00	3.46E-04
193	ALL	495126	3761476	NonCancer	0.00E+00	0.00E+00	3.38E-04	0.00E+00	0.00E+00	3.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-04	0.00E+00	0.00E+00	3.38E-04
194	ALL	495146	3761476	NonCancer	0.00E+00	0.00E+00	3.29E-04	0.00E+00	0.00E+00	3.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-04	0.00E+00	0.00E+00	3.29E-04
195	ALL	495166	3761476	NonCancer	0.00E+00	0.00E+00	3.18E-04	0.00E+00	0.00E+00	3.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-04	0.00E+00	0.00E+00	3.18E-04
196	ALL	495186	3761476	NonCancer	0.00E+00	0.00E+00	3.09E-04	0.00E+00	0.00E+00	3.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-04	0.00E+00	0.00E+00	3.09E-04
197	ALL	495206	3761476	NonCancer	0.00E+00	0.00E+00	3.02E-04	0.00E+00	0.00E+00	3.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-04	0.00E+00	0.00E+00	3.02E-04
198	ALL	495226	3761476	NonCancer	0.00E+00	0.00E+00	2.97E-04	0.00E+00	0.00E+00	2.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04	0.00E+00	0.00E+00	2.97E-04
199	ALL	495246	3761476	NonCancer	0.00E+00	0.00E+00	2.93E-04	0.00E+00	0.00E+00	2.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-04	0.00E+00	0.00E+00	2.93E-04
200	ALL	495266	3761476	NonCancer	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	2.86E-04
201	ALL	495286	3761476	NonCancer	0.00E+00	0.00E+00	2.82E-04	0.00E+00	0.00E+00	2.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-04	0.00E+00	0.00E+00	2.82E-04
202	ALL	495306	3761476	NonCancer	0.00E+00	0.00E+00	2.82E-04	0.00E+00	0.00E+00	2.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-04	0.00E+00	0.00E+00	2.82E-04
203	ALL	495326	3761476	NonCancer	0.00E+00	0.00E+00	2.87E-04	0.00E+00	0.00E+00	2.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-04	0.00E+00	0.00E+00	2.87E-04
204	ALL	495346	3761476	NonCancer	0.00E+00	0.00E+00	2.92E-04	0.00E+00	0.00E+00	2.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-04	0.00E+00	0.00E+00	2.92E-04
205	ALL	495366	3761476	NonCancer	0.00E+00	0.00E+00	2.85E-04	0.00E+00	0.00E+00	2.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-04	0.00E+00	0.00E+00	2.85E-04
206	ALL	495386	3761476	NonCancer	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	2.78E-04
207	ALL	495406	3761476	NonCancer	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	2.73E-04

208	ALL	495426	3761476	NonCancer	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	2.68E-04
209	ALL	495446	3761476	NonCancer	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	2.65E-04
210	ALL	495466	3761476	NonCancer	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	2.58E-04
211	ALL	495486	3761476	NonCancer	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	2.51E-04
212	ALL	495506	3761476	NonCancer	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	2.45E-04
213	ALL	495526	3761476	NonCancer	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	2.40E-04
214	ALL	494866	3761496	NonCancer	0.00E+00	0.00E+00	4.89E-04	0.00E+00	0.00E+00	4.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-04	0.00E+00	0.00E+00	4.89E-04
215	ALL	494886	3761496	NonCancer	0.00E+00	0.00E+00	4.76E-04	0.00E+00	0.00E+00	4.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-04	0.00E+00	0.00E+00	4.76E-04
216	ALL	494906	3761496	NonCancer	0.00E+00	0.00E+00	4.64E-04	0.00E+00	0.00E+00	4.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-04	0.00E+00	0.00E+00	4.64E-04
217	ALL	494926	3761496	NonCancer	0.00E+00	0.00E+00	4.54E-04	0.00E+00	0.00E+00	4.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-04	0.00E+00	0.00E+00	4.54E-04
218	ALL	494946	3761496	NonCancer	0.00E+00	0.00E+00	4.43E-04	0.00E+00	0.00E+00	4.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-04	0.00E+00	0.00E+00	4.43E-04
219	ALL	494966	3761496	NonCancer	0.00E+00	0.00E+00	4.33E-04	0.00E+00	0.00E+00	4.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-04	0.00E+00	0.00E+00	4.33E-04
220	ALL	494986	3761496	NonCancer	0.00E+00	0.00E+00	4.21E-04	0.00E+00	0.00E+00	4.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-04	0.00E+00	0.00E+00	4.21E-04
221	ALL	495006	3761496	NonCancer	0.00E+00	0.00E+00	4.06E-04	0.00E+00	0.00E+00	4.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-04	0.00E+00	0.00E+00	4.06E-04
222	ALL	495026	3761496	NonCancer	0.00E+00	0.00E+00	3.95E-04	0.00E+00	0.00E+00	3.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-04	0.00E+00	0.00E+00	3.95E-04
223	ALL	495046	3761496	NonCancer	0.00E+00	0.00E+00	3.86E-04	0.00E+00	0.00E+00	3.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-04	0.00E+00	0.00E+00	3.86E-04
224	ALL	495066	3761496	NonCancer	0.00E+00	0.00E+00	3.76E-04	0.00E+00	0.00E+00	3.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-04	0.00E+00	0.00E+00	3.76E-04
225	ALL	495086	3761496	NonCancer	0.00E+00	0.00E+00	3.64E-04	0.00E+00	0.00E+00	3.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-04	0.00E+00	0.00E+00	3.64E-04
226	ALL	495106	3761496	NonCancer	0.00E+00	0.00E+00	3.51E-04	0.00E+00	0.00E+00	3.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-04	0.00E+00	0.00E+00	3.51E-04
227	ALL	495126	3761496	NonCancer	0.00E+00	0.00E+00	3.38E-04	0.00E+00	0.00E+00	3.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-04	0.00E+00	0.00E+00	3.38E-04
228	ALL	495146	3761496	NonCancer	0.00E+00	0.00E+00	3.26E-04	0.00E+00	0.00E+00	3.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-04	0.00E+00	0.00E+00	3.26E-04
229	ALL	495166	3761496	NonCancer	0.00E+00	0.00E+00	3.14E-04	0.00E+00	0.00E+00	3.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-04	0.00E+00	0.00E+00	3.14E-04
230	ALL	495186	3761496	NonCancer	0.00E+00	0.00E+00	3.10E-04	0.00E+00	0.00E+00	3.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-04	0.00E+00	0.00E+00	3.10E-04
231	ALL	495206	3761496	NonCancer	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	3.06E-04
232	ALL	495226	3761496	NonCancer	0.00E+00	0.00E+00	3.02E-04	0.00E+00	0.00E+00	3.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-04	0.00E+00	0.00E+00	3.02E-04
233	ALL	495246	3761496	NonCancer	0.00E+00	0.00E+00	2.97E-04	0.00E+00	0.00E+00	2.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04	0.00E+00	0.00E+00	2.97E-04
234	ALL	495266	3761496	NonCancer	0.00E+00	0.00E+00	2.89E-04	0.00E+00	0.00E+00	2.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-04	0.00E+00	0.00E+00	2.89E-04
235	ALL	495286	3761496	NonCancer	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	2.84E-04
236	ALL	495306	3761496	NonCancer	0.00E+00	0.00E+00	2.80E-04	0.00E+00	0.00E+00	2.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-04	0.00E+00	0.00E+00	2.80E-04
237	ALL	495326	3761496	NonCancer	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	2.78E-04
238	ALL	495346	3761496	NonCancer	0.00E+00	0.00E+00	2.76E-04	0.00E+00	0.00E+00	2.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04	0.00E+00	0.00E+00	2.76E-04
239	ALL	495366	3761496	NonCancer	0.00E+00	0.00E+00	2.67E-04	0.00E+00	0.00E+00	2.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-04	0.00E+00	0.00E+00	2.67E-04
240	ALL	495386	3761496	NonCancer	0.00E+00	0.00E+00	2.60E-04	0.00E+00	0.00E+00	2.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04	0.00E+00	0.00E+00	2.60E-04
241	ALL	495406	3761496	NonCancer	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	2.58E-04
242	ALL	495426	3761496	NonCancer	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	2.56E-04
243	ALL	495446	3761496	NonCancer	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	2.56E-04
244	ALL	495466	3761496	NonCancer	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	2.51E-04
245	ALL	495486	3761496	NonCancer	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	2.47E-04
246	ALL	495506	3761496	NonCancer	0.00E+00	0.00E+00	2.43E-04	0.00E+00	0.00E+00	2.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04	0.00E+00	0.00E+00	2.43E-04
247	ALL	495526	3761496	NonCancer	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	2.41E-04
248	ALL	494866	3761516	NonCancer	0.00E+00	0.00E+00	5.35E-04	0.00E+00	0.00E+00	5.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-04	0.00E+00	0.00E+00	5.35E-04
249	ALL	494886	3761516	NonCancer	0.00E+00	0.00E+00	5.15E-04	0.00E+00	0.00E+00	5.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.15E-04	0.00E+00	0.00E+00	5.15E-04
250	ALL	494906	3761516	NonCancer	0.00E+00	0.00E+00	4.91E-04	0.00E+00	0.00E+00	4.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-04	0.00E+00	0.00E+00	4.91E-04
251	ALL	494926	3761516	NonCancer	0.00E+00	0.00E+00	4.71E-04	0.00E+00	0.00E+00	4.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-04	0.00E+00	0.00E+00	4.71E-04
252	ALL	494946	3761516	NonCancer	0.00E+00	0.00E+00	4.53E-04	0.00E+00	0.00E+00	4.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-04	0.00E+00	0.00E+00	4.53E-04
253	ALL	494966	3761516	NonCancer	0.00E+00	0.00E+00	4.35E-04	0.00E+00	0.00E+00	4.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-04	0.00E+00	0.00E+00	4.35E-04
254	ALL	494986	3761516	NonCancer	0.00E+00	0.00E+00	4.16E-04	0.00E+00	0.00E+00	4.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-04	0.00E+00	0.00E+00	4.16E-04
255	ALL	495006	3761516	NonCancer	0.00E+00	0.00E+00	3.95E-04	0.00E+00	0.00E+00	3.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-04	0.00E+00	0.00E+00	3.95E-04
256	ALL	495026	3761516	NonCancer	0.00E+00	0.00E+00	3.79E-04	0.00E+00	0.00E+00	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-04	0.00E+00	0.00E+00	3.79E-04
257	ALL	495046	3761516	NonCancer	0.00E+00	0.00E+00	3.67E-04	0.00E+00	0.00E+00	3.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-04	0.00E+00	0.00E+00	3.67E-04
258	ALL	495066	3761516	NonCancer	0.00E+00	0.00E+00	3.57E-04	0.00E+00	0.00E+00	3.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-04	0.00E+00	0.00E+00	3.57E-04
259	ALL	495086	3761516	NonCancer	0.00E+00	0.00E+00	3.48E-04	0.00E+00	0.00E+00	3.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-04	0.00E+00	0.00E+00	3.48E-04

260	ALL	495106	3761516	NonCancer	0.00E+00	0.00E+00	3.39E-04	0.00E+00	0.00E+00	3.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-04	0.00E+00	0.00E+00	3.39E-04
261	ALL	495126	3761516	NonCancer	0.00E+00	0.00E+00	3.31E-04	0.00E+00	0.00E+00	3.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-04	0.00E+00	0.00E+00	3.31E-04
262	ALL	495146	3761516	NonCancer	0.00E+00	0.00E+00	3.25E-04	0.00E+00	0.00E+00	3.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-04	0.00E+00	0.00E+00	3.25E-04
263	ALL	495166	3761516	NonCancer	0.00E+00	0.00E+00	3.18E-04	0.00E+00	0.00E+00	3.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-04	0.00E+00	0.00E+00	3.18E-04
264	ALL	495186	3761516	NonCancer	0.00E+00	0.00E+00	3.13E-04	0.00E+00	0.00E+00	3.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-04	0.00E+00	0.00E+00	3.13E-04
265	ALL	495206	3761516	NonCancer	0.00E+00	0.00E+00	3.09E-04	0.00E+00	0.00E+00	3.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-04	0.00E+00	0.00E+00	3.09E-04
266	ALL	495226	3761516	NonCancer	0.00E+00	0.00E+00	3.05E-04	0.00E+00	0.00E+00	3.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-04	0.00E+00	0.00E+00	3.05E-04
267	ALL	495246	3761516	NonCancer	0.00E+00	0.00E+00	3.01E-04	0.00E+00	0.00E+00	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04	0.00E+00	0.00E+00	3.01E-04
268	ALL	495266	3761516	NonCancer	0.00E+00	0.00E+00	2.97E-04	0.00E+00	0.00E+00	2.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04	0.00E+00	0.00E+00	2.97E-04
269	ALL	495286	3761516	NonCancer	0.00E+00	0.00E+00	2.94E-04	0.00E+00	0.00E+00	2.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-04	0.00E+00	0.00E+00	2.94E-04
270	ALL	495306	3761516	NonCancer	0.00E+00	0.00E+00	2.92E-04	0.00E+00	0.00E+00	2.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-04	0.00E+00	0.00E+00	2.92E-04
271	ALL	495326	3761516	NonCancer	0.00E+00	0.00E+00	2.90E-04	0.00E+00	0.00E+00	2.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-04	0.00E+00	0.00E+00	2.90E-04
272	ALL	495346	3761516	NonCancer	0.00E+00	0.00E+00	2.88E-04	0.00E+00	0.00E+00	2.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-04	0.00E+00	0.00E+00	2.88E-04
273	ALL	495366	3761516	NonCancer	0.00E+00	0.00E+00	2.83E-04	0.00E+00	0.00E+00	2.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-04	0.00E+00	0.00E+00	2.83E-04
274	ALL	495386	3761516	NonCancer	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	2.78E-04
275	ALL	495406	3761516	NonCancer	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	2.74E-04
276	ALL	495426	3761516	NonCancer	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	2.72E-04
277	ALL	495446	3761516	NonCancer	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	2.70E-04
278	ALL	495466	3761516	NonCancer	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	2.64E-04
279	ALL	495486	3761516	NonCancer	0.00E+00	0.00E+00	2.59E-04	0.00E+00	0.00E+00	2.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-04	0.00E+00	0.00E+00	2.59E-04
280	ALL	495506	3761516	NonCancer	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	2.54E-04
281	ALL	495526	3761516	NonCancer	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	2.50E-04
282	ALL	494866	3761536	NonCancer	0.00E+00	0.00E+00	5.05E-04	0.00E+00	0.00E+00	5.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-04	0.00E+00	0.00E+00	5.05E-04
283	ALL	494886	3761536	NonCancer	0.00E+00	0.00E+00	4.81E-04	0.00E+00	0.00E+00	4.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-04	0.00E+00	0.00E+00	4.81E-04
284	ALL	494906	3761536	NonCancer	0.00E+00	0.00E+00	4.53E-04	0.00E+00	0.00E+00	4.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-04	0.00E+00	0.00E+00	4.53E-04
285	ALL	494926	3761536	NonCancer	0.00E+00	0.00E+00	4.33E-04	0.00E+00	0.00E+00	4.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-04	0.00E+00	0.00E+00	4.33E-04
286	ALL	494946	3761536	NonCancer	0.00E+00	0.00E+00	4.24E-04	0.00E+00	0.00E+00	4.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-04	0.00E+00	0.00E+00	4.24E-04
287	ALL	494966	3761536	NonCancer	0.00E+00	0.00E+00	4.17E-04	0.00E+00	0.00E+00	4.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-04	0.00E+00	0.00E+00	4.17E-04
288	ALL	494986	3761536	NonCancer	0.00E+00	0.00E+00	4.08E-04	0.00E+00	0.00E+00	4.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-04	0.00E+00	0.00E+00	4.08E-04
289	ALL	495006	3761536	NonCancer	0.00E+00	0.00E+00	3.92E-04	0.00E+00	0.00E+00	3.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-04	0.00E+00	0.00E+00	3.92E-04
290	ALL	495026	3761536	NonCancer	0.00E+00	0.00E+00	3.84E-04	0.00E+00	0.00E+00	3.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-04	0.00E+00	0.00E+00	3.84E-04
291	ALL	495046	3761536	NonCancer	0.00E+00	0.00E+00	3.80E-04	0.00E+00	0.00E+00	3.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-04	0.00E+00	0.00E+00	3.80E-04
292	ALL	495066	3761536	NonCancer	0.00E+00	0.00E+00	3.77E-04	0.00E+00	0.00E+00	3.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-04	0.00E+00	0.00E+00	3.77E-04
293	ALL	495086	3761536	NonCancer	0.00E+00	0.00E+00	3.69E-04	0.00E+00	0.00E+00	3.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-04	0.00E+00	0.00E+00	3.69E-04
294	ALL	495106	3761536	NonCancer	0.00E+00	0.00E+00	3.60E-04	0.00E+00	0.00E+00	3.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-04	0.00E+00	0.00E+00	3.60E-04
295	ALL	495126	3761536	NonCancer	0.00E+00	0.00E+00	3.51E-04	0.00E+00	0.00E+00	3.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-04	0.00E+00	0.00E+00	3.51E-04
296	ALL	495146	3761536	NonCancer	0.00E+00	0.00E+00	3.43E-04	0.00E+00	0.00E+00	3.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-04	0.00E+00	0.00E+00	3.43E-04
297	ALL	495166	3761536	NonCancer	0.00E+00	0.00E+00	3.35E-04	0.00E+00	0.00E+00	3.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04	0.00E+00	0.00E+00	3.35E-04
298	ALL	495186	3761536	NonCancer	0.00E+00	0.00E+00	3.28E-04	0.00E+00	0.00E+00	3.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-04	0.00E+00	0.00E+00	3.28E-04
299	ALL	495206	3761536	NonCancer	0.00E+00	0.00E+00	3.21E-04	0.00E+00	0.00E+00	3.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-04	0.00E+00	0.00E+00	3.21E-04
300	ALL	495226	3761536	NonCancer	0.00E+00	0.00E+00	3.16E-04	0.00E+00	0.00E+00	3.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-04	0.00E+00	0.00E+00	3.16E-04
301	ALL	495246	3761536	NonCancer	0.00E+00	0.00E+00	3.10E-04	0.00E+00	0.00E+00	3.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-04	0.00E+00	0.00E+00	3.10E-04
302	ALL	495266	3761536	NonCancer	0.00E+00	0.00E+00	3.04E-04	0.00E+00	0.00E+00	3.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-04	0.00E+00	0.00E+00	3.04E-04
303	ALL	495286	3761536	NonCancer	0.00E+00	0.00E+00	2.99E-04	0.00E+00	0.00E+00	2.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04	0.00E+00	0.00E+00	2.99E-04
304	ALL	495306	3761536	NonCancer	0.00E+00	0.00E+00	2.95E-04	0.00E+00	0.00E+00	2.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-04	0.00E+00	0.00E+00	2.95E-04
305	ALL	495326	3761536	NonCancer	0.00E+00	0.00E+00	2.90E-04	0.00E+00	0.00E+00	2.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-04	0.00E+00	0.00E+00	2.90E-04
306	ALL	495346	3761536	NonCancer	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	2.86E-04
307	ALL	495366	3761536	NonCancer	0.00E+00	0.00E+00	2.80E-04	0.00E+00	0.00E+00	2.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-04	0.00E+00	0.00E+00	2.80E-04
308	ALL	495386	3761536	NonCancer	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	2.74E-04
309	ALL	495406	3761536	NonCancer	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	2.69E-04
310	ALL	495426	3761536	NonCancer	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	2.65E-04
311	ALL	495446	3761536	NonCancer	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	2.62E-04

312	ALL	495466	3761536	NonCancer	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	2.56E-04
313	ALL	495486	3761536	NonCancer	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	2.50E-04
314	ALL	495506	3761536	NonCancer	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	2.45E-04
315	ALL	495526	3761536	NonCancer	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	2.40E-04
316	ALL	494866	3761556	NonCancer	0.00E+00	0.00E+00	5.04E-04	0.00E+00	0.00E+00	5.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-04	0.00E+00	0.00E+00	5.04E-04
317	ALL	494886	3761556	NonCancer	0.00E+00	0.00E+00	4.93E-04	0.00E+00	0.00E+00	4.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-04	0.00E+00	0.00E+00	4.93E-04
318	ALL	494906	3761556	NonCancer	0.00E+00	0.00E+00	4.71E-04	0.00E+00	0.00E+00	4.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-04	0.00E+00	0.00E+00	4.71E-04
319	ALL	494926	3761556	NonCancer	0.00E+00	0.00E+00	4.58E-04	0.00E+00	0.00E+00	4.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-04	0.00E+00	0.00E+00	4.58E-04
320	ALL	494946	3761556	NonCancer	0.00E+00	0.00E+00	4.49E-04	0.00E+00	0.00E+00	4.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-04	0.00E+00	0.00E+00	4.49E-04
321	ALL	494966	3761556	NonCancer	0.00E+00	0.00E+00	4.39E-04	0.00E+00	0.00E+00	4.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-04	0.00E+00	0.00E+00	4.39E-04
322	ALL	494986	3761556	NonCancer	0.00E+00	0.00E+00	4.27E-04	0.00E+00	0.00E+00	4.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-04	0.00E+00	0.00E+00	4.27E-04
323	ALL	495006	3761556	NonCancer	0.00E+00	0.00E+00	4.10E-04	0.00E+00	0.00E+00	4.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-04	0.00E+00	0.00E+00	4.10E-04
324	ALL	495026	3761556	NonCancer	0.00E+00	0.00E+00	4.00E-04	0.00E+00	0.00E+00	4.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-04	0.00E+00	0.00E+00	4.00E-04
325	ALL	495046	3761556	NonCancer	0.00E+00	0.00E+00	3.94E-04	0.00E+00	0.00E+00	3.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-04	0.00E+00	0.00E+00	3.94E-04
326	ALL	495066	3761556	NonCancer	0.00E+00	0.00E+00	3.87E-04	0.00E+00	0.00E+00	3.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-04	0.00E+00	0.00E+00	3.87E-04
327	ALL	495086	3761556	NonCancer	0.00E+00	0.00E+00	3.76E-04	0.00E+00	0.00E+00	3.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-04	0.00E+00	0.00E+00	3.76E-04
328	ALL	495106	3761556	NonCancer	0.00E+00	0.00E+00	3.66E-04	0.00E+00	0.00E+00	3.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-04	0.00E+00	0.00E+00	3.66E-04
329	ALL	495126	3761556	NonCancer	0.00E+00	0.00E+00	3.58E-04	0.00E+00	0.00E+00	3.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-04	0.00E+00	0.00E+00	3.58E-04
330	ALL	495146	3761556	NonCancer	0.00E+00	0.00E+00	3.49E-04	0.00E+00	0.00E+00	3.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-04	0.00E+00	0.00E+00	3.49E-04
331	ALL	495166	3761556	NonCancer	0.00E+00	0.00E+00	3.40E-04	0.00E+00	0.00E+00	3.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-04	0.00E+00	0.00E+00	3.40E-04
332	ALL	495186	3761556	NonCancer	0.00E+00	0.00E+00	3.31E-04	0.00E+00	0.00E+00	3.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-04	0.00E+00	0.00E+00	3.31E-04
333	ALL	495206	3761556	NonCancer	0.00E+00	0.00E+00	3.23E-04	0.00E+00	0.00E+00	3.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-04	0.00E+00	0.00E+00	3.23E-04
334	ALL	495226	3761556	NonCancer	0.00E+00	0.00E+00	3.16E-04	0.00E+00	0.00E+00	3.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-04	0.00E+00	0.00E+00	3.16E-04
335	ALL	495246	3761556	NonCancer	0.00E+00	0.00E+00	3.08E-04	0.00E+00	0.00E+00	3.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-04	0.00E+00	0.00E+00	3.08E-04
336	ALL	495266	3761556	NonCancer	0.00E+00	0.00E+00	3.01E-04	0.00E+00	0.00E+00	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04	0.00E+00	0.00E+00	3.01E-04
337	ALL	495286	3761556	NonCancer	0.00E+00	0.00E+00	2.94E-04	0.00E+00	0.00E+00	2.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-04	0.00E+00	0.00E+00	2.94E-04
338	ALL	495306	3761556	NonCancer	0.00E+00	0.00E+00	2.88E-04	0.00E+00	0.00E+00	2.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-04	0.00E+00	0.00E+00	2.88E-04
339	ALL	495326	3761556	NonCancer	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	2.81E-04
340	ALL	495346	3761556	NonCancer	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	2.75E-04
341	ALL	495366	3761556	NonCancer	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	2.70E-04
342	ALL	495386	3761556	NonCancer	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	2.64E-04
343	ALL	495406	3761556	NonCancer	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	2.58E-04
344	ALL	495426	3761556	NonCancer	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	2.53E-04
345	ALL	495446	3761556	NonCancer	0.00E+00	0.00E+00	2.48E-04	0.00E+00	0.00E+00	2.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04	0.00E+00	0.00E+00	2.48E-04
346	ALL	495466	3761556	NonCancer	0.00E+00	0.00E+00	2.43E-04	0.00E+00	0.00E+00	2.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04	0.00E+00	0.00E+00	2.43E-04
347	ALL	495486	3761556	NonCancer	0.00E+00	0.00E+00	2.37E-04	0.00E+00	0.00E+00	2.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-04	0.00E+00	0.00E+00	2.37E-04
348	ALL	495506	3761556	NonCancer	0.00E+00	0.00E+00	2.32E-04	0.00E+00	0.00E+00	2.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04	0.00E+00	0.00E+00	2.32E-04
349	ALL	495526	3761556	NonCancer	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	2.28E-04
350	ALL	494846	3761576	NonCancer	0.00E+00	0.00E+00	5.02E-04	0.00E+00	0.00E+00	5.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-04	0.00E+00	0.00E+00	5.02E-04
351	ALL	494866	3761576	NonCancer	0.00E+00	0.00E+00	4.84E-04	0.00E+00	0.00E+00	4.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-04	0.00E+00	0.00E+00	4.84E-04
352	ALL	494886	3761576	NonCancer	0.00E+00	0.00E+00	4.67E-04	0.00E+00	0.00E+00	4.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-04	0.00E+00	0.00E+00	4.67E-04
353	ALL	494906	3761576	NonCancer	0.00E+00	0.00E+00	4.45E-04	0.00E+00	0.00E+00	4.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-04	0.00E+00	0.00E+00	4.45E-04
354	ALL	494926	3761576	NonCancer	0.00E+00	0.00E+00	4.29E-04	0.00E+00	0.00E+00	4.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-04	0.00E+00	0.00E+00	4.29E-04
355	ALL	494946	3761576	NonCancer	0.00E+00	0.00E+00	4.19E-04	0.00E+00	0.00E+00	4.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-04	0.00E+00	0.00E+00	4.19E-04
356	ALL	494966	3761576	NonCancer	0.00E+00	0.00E+00	4.08E-04	0.00E+00	0.00E+00	4.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-04	0.00E+00	0.00E+00	4.08E-04
357	ALL	494986	3761576	NonCancer	0.00E+00	0.00E+00	3.95E-04	0.00E+00	0.00E+00	3.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-04	0.00E+00	0.00E+00	3.95E-04
358	ALL	495006	3761576	NonCancer	0.00E+00	0.00E+00	3.81E-04	0.00E+00	0.00E+00	3.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-04	0.00E+00	0.00E+00	3.81E-04
359	ALL	495026	3761576	NonCancer	0.00E+00	0.00E+00	3.71E-04	0.00E+00	0.00E+00	3.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-04	0.00E+00	0.00E+00	3.71E-04
360	ALL	495046	3761576	NonCancer	0.00E+00	0.00E+00	3.63E-04	0.00E+00	0.00E+00	3.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-04	0.00E+00	0.00E+00	3.63E-04
361	ALL	495066	3761576	NonCancer	0.00E+00	0.00E+00	3.55E-04	0.00E+00	0.00E+00	3.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-04	0.00E+00	0.00E+00	3.55E-04
362	ALL	495086	3761576	NonCancer	0.00E+00	0.00E+00	3.44E-04	0.00E+00	0.00E+00	3.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-04	0.00E+00	0.00E+00	3.44E-04
363	ALL	495106	3761576	NonCancer	0.00E+00	0.00E+00	3.34E-04	0.00E+00	0.00E+00	3.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-04	0.00E+00	0.00E+00	3.34E-04

364	ALL	495126	3761576	NonCancer	0.00E+00	0.00E+00	3.26E-04	0.00E+00	0.00E+00	3.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-04	0.00E+00	0.00E+00	3.26E-04
365	ALL	495146	3761576	NonCancer	0.00E+00	0.00E+00	3.17E-04	0.00E+00	0.00E+00	3.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04	0.00E+00	0.00E+00	3.17E-04
366	ALL	495166	3761576	NonCancer	0.00E+00	0.00E+00	3.09E-04	0.00E+00	0.00E+00	3.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-04	0.00E+00	0.00E+00	3.09E-04
367	ALL	495186	3761576	NonCancer	0.00E+00	0.00E+00	3.02E-04	0.00E+00	0.00E+00	3.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-04	0.00E+00	0.00E+00	3.02E-04
368	ALL	495206	3761576	NonCancer	0.00E+00	0.00E+00	2.95E-04	0.00E+00	0.00E+00	2.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-04	0.00E+00	0.00E+00	2.95E-04
369	ALL	495226	3761576	NonCancer	0.00E+00	0.00E+00	2.90E-04	0.00E+00	0.00E+00	2.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-04	0.00E+00	0.00E+00	2.90E-04
370	ALL	495246	3761576	NonCancer	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	2.84E-04
371	ALL	495266	3761576	NonCancer	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	2.78E-04
372	ALL	495286	3761576	NonCancer	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	2.73E-04
373	ALL	495306	3761576	NonCancer	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	2.68E-04
374	ALL	495326	3761576	NonCancer	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	2.64E-04
375	ALL	495346	3761576	NonCancer	0.00E+00	0.00E+00	2.59E-04	0.00E+00	0.00E+00	2.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-04	0.00E+00	0.00E+00	2.59E-04
376	ALL	495366	3761576	NonCancer	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	2.55E-04
377	ALL	495386	3761576	NonCancer	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	2.51E-04
378	ALL	495406	3761576	NonCancer	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	2.46E-04
379	ALL	495426	3761576	NonCancer	0.00E+00	0.00E+00	2.42E-04	0.00E+00	0.00E+00	2.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-04	0.00E+00	0.00E+00	2.42E-04
380	ALL	495446	3761576	NonCancer	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	2.40E-04
381	ALL	495466	3761576	NonCancer	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	2.36E-04
382	ALL	495486	3761576	NonCancer	0.00E+00	0.00E+00	2.32E-04	0.00E+00	0.00E+00	2.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04	0.00E+00	0.00E+00	2.32E-04
383	ALL	495506	3761576	NonCancer	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	2.28E-04
384	ALL	495526	3761576	NonCancer	0.00E+00	0.00E+00	2.26E-04	0.00E+00	0.00E+00	2.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04	0.00E+00	0.00E+00	2.26E-04
385	ALL	494846	3761596	NonCancer	0.00E+00	0.00E+00	4.52E-04	0.00E+00	0.00E+00	4.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-04	0.00E+00	0.00E+00	4.52E-04
386	ALL	494866	3761596	NonCancer	0.00E+00	0.00E+00	4.37E-04	0.00E+00	0.00E+00	4.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-04	0.00E+00	0.00E+00	4.37E-04
387	ALL	494886	3761596	NonCancer	0.00E+00	0.00E+00	4.23E-04	0.00E+00	0.00E+00	4.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-04	0.00E+00	0.00E+00	4.23E-04
388	ALL	494906	3761596	NonCancer	0.00E+00	0.00E+00	4.03E-04	0.00E+00	0.00E+00	4.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-04	0.00E+00	0.00E+00	4.03E-04
389	ALL	494926	3761596	NonCancer	0.00E+00	0.00E+00	3.90E-04	0.00E+00	0.00E+00	3.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-04	0.00E+00	0.00E+00	3.90E-04
390	ALL	494946	3761596	NonCancer	0.00E+00	0.00E+00	3.82E-04	0.00E+00	0.00E+00	3.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-04	0.00E+00	0.00E+00	3.82E-04
391	ALL	494966	3761596	NonCancer	0.00E+00	0.00E+00	3.74E-04	0.00E+00	0.00E+00	3.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-04	0.00E+00	0.00E+00	3.74E-04
392	ALL	494986	3761596	NonCancer	0.00E+00	0.00E+00	3.63E-04	0.00E+00	0.00E+00	3.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-04	0.00E+00	0.00E+00	3.63E-04
393	ALL	495006	3761596	NonCancer	0.00E+00	0.00E+00	3.53E-04	0.00E+00	0.00E+00	3.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-04	0.00E+00	0.00E+00	3.53E-04
394	ALL	495026	3761596	NonCancer	0.00E+00	0.00E+00	3.47E-04	0.00E+00	0.00E+00	3.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-04	0.00E+00	0.00E+00	3.47E-04
395	ALL	495046	3761596	NonCancer	0.00E+00	0.00E+00	3.42E-04	0.00E+00	0.00E+00	3.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-04	0.00E+00	0.00E+00	3.42E-04
396	ALL	495066	3761596	NonCancer	0.00E+00	0.00E+00	3.37E-04	0.00E+00	0.00E+00	3.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-04	0.00E+00	0.00E+00	3.37E-04
397	ALL	495086	3761596	NonCancer	0.00E+00	0.00E+00	3.26E-04	0.00E+00	0.00E+00	3.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-04	0.00E+00	0.00E+00	3.26E-04
398	ALL	495106	3761596	NonCancer	0.00E+00	0.00E+00	3.18E-04	0.00E+00	0.00E+00	3.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-04	0.00E+00	0.00E+00	3.18E-04
399	ALL	495126	3761596	NonCancer	0.00E+00	0.00E+00	3.12E-04	0.00E+00	0.00E+00	3.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04	0.00E+00	0.00E+00	3.12E-04
400	ALL	495146	3761596	NonCancer	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	3.06E-04
401	ALL	495166	3761596	NonCancer	0.00E+00	0.00E+00	3.01E-04	0.00E+00	0.00E+00	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04	0.00E+00	0.00E+00	3.01E-04
402	ALL	495186	3761596	NonCancer	0.00E+00	0.00E+00	2.95E-04	0.00E+00	0.00E+00	2.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-04	0.00E+00	0.00E+00	2.95E-04
403	ALL	495206	3761596	NonCancer	0.00E+00	0.00E+00	2.89E-04	0.00E+00	0.00E+00	2.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-04	0.00E+00	0.00E+00	2.89E-04
404	ALL	495226	3761596	NonCancer	0.00E+00	0.00E+00	2.83E-04	0.00E+00	0.00E+00	2.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-04	0.00E+00	0.00E+00	2.83E-04
405	ALL	495246	3761596	NonCancer	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	2.78E-04
406	ALL	495266	3761596	NonCancer	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	2.72E-04
407	ALL	495286	3761596	NonCancer	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	2.66E-04
408	ALL	495306	3761596	NonCancer	0.00E+00	0.00E+00	2.60E-04	0.00E+00	0.00E+00	2.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04	0.00E+00	0.00E+00	2.60E-04
409	ALL	495326	3761596	NonCancer	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	2.54E-04
410	ALL	495346	3761596	NonCancer	0.00E+00	0.00E+00	2.49E-04	0.00E+00	0.00E+00	2.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04	0.00E+00	0.00E+00	2.49E-04
411	ALL	495366	3761596	NonCancer	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	2.44E-04
412	ALL	495386	3761596	NonCancer	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	2.39E-04
413	ALL	495406	3761596	NonCancer	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	2.34E-04
414	ALL	495426	3761596	NonCancer	0.00E+00	0.00E+00	2.29E-04	0.00E+00	0.00E+00	2.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04	0.00E+00	0.00E+00	2.29E-04
415	ALL	495446	3761596	NonCancer	0.00E+00	0.00E+00	2.26E-04	0.00E+00	0.00E+00	2.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04	0.00E+00	0.00E+00	2.26E-04

416	ALL	495466	3761596	NonCancer	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	2.22E-04
417	ALL	495486	3761596	NonCancer	0.00E+00	0.00E+00	2.18E-04	0.00E+00	0.00E+00	2.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04	0.00E+00	0.00E+00	2.18E-04
418	ALL	495506	3761596	NonCancer	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	2.15E-04
419	ALL	495526	3761596	NonCancer	0.00E+00	0.00E+00	2.12E-04	0.00E+00	0.00E+00	2.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04	0.00E+00	0.00E+00	2.12E-04
420	ALL	494846	3761616	NonCancer	0.00E+00	0.00E+00	4.45E-04	0.00E+00	0.00E+00	4.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-04	0.00E+00	0.00E+00	4.45E-04
421	ALL	494866	3761616	NonCancer	0.00E+00	0.00E+00	4.29E-04	0.00E+00	0.00E+00	4.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-04	0.00E+00	0.00E+00	4.29E-04
422	ALL	494886	3761616	NonCancer	0.00E+00	0.00E+00	4.14E-04	0.00E+00	0.00E+00	4.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-04	0.00E+00	0.00E+00	4.14E-04
423	ALL	494906	3761616	NonCancer	0.00E+00	0.00E+00	3.97E-04	0.00E+00	0.00E+00	3.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-04	0.00E+00	0.00E+00	3.97E-04
424	ALL	494926	3761616	NonCancer	0.00E+00	0.00E+00	3.85E-04	0.00E+00	0.00E+00	3.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-04	0.00E+00	0.00E+00	3.85E-04
425	ALL	494946	3761616	NonCancer	0.00E+00	0.00E+00	3.78E-04	0.00E+00	0.00E+00	3.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-04	0.00E+00	0.00E+00	3.78E-04
426	ALL	494966	3761616	NonCancer	0.00E+00	0.00E+00	3.72E-04	0.00E+00	0.00E+00	3.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-04	0.00E+00	0.00E+00	3.72E-04
427	ALL	494986	3761616	NonCancer	0.00E+00	0.00E+00	3.63E-04	0.00E+00	0.00E+00	3.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-04	0.00E+00	0.00E+00	3.63E-04
428	ALL	495006	3761616	NonCancer	0.00E+00	0.00E+00	3.54E-04	0.00E+00	0.00E+00	3.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-04	0.00E+00	0.00E+00	3.54E-04
429	ALL	495026	3761616	NonCancer	0.00E+00	0.00E+00	3.49E-04	0.00E+00	0.00E+00	3.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-04	0.00E+00	0.00E+00	3.49E-04
430	ALL	495046	3761616	NonCancer	0.00E+00	0.00E+00	3.43E-04	0.00E+00	0.00E+00	3.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-04	0.00E+00	0.00E+00	3.43E-04
431	ALL	495066	3761616	NonCancer	0.00E+00	0.00E+00	3.37E-04	0.00E+00	0.00E+00	3.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-04	0.00E+00	0.00E+00	3.37E-04
432	ALL	495086	3761616	NonCancer	0.00E+00	0.00E+00	3.26E-04	0.00E+00	0.00E+00	3.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-04	0.00E+00	0.00E+00	3.26E-04
433	ALL	495106	3761616	NonCancer	0.00E+00	0.00E+00	3.18E-04	0.00E+00	0.00E+00	3.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-04	0.00E+00	0.00E+00	3.18E-04
434	ALL	495126	3761616	NonCancer	0.00E+00	0.00E+00	3.12E-04	0.00E+00	0.00E+00	3.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04	0.00E+00	0.00E+00	3.12E-04
435	ALL	495146	3761616	NonCancer	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	3.06E-04
436	ALL	495166	3761616	NonCancer	0.00E+00	0.00E+00	3.00E-04	0.00E+00	0.00E+00	3.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04	0.00E+00	0.00E+00	3.00E-04
437	ALL	495186	3761616	NonCancer	0.00E+00	0.00E+00	2.94E-04	0.00E+00	0.00E+00	2.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-04	0.00E+00	0.00E+00	2.94E-04
438	ALL	495206	3761616	NonCancer	0.00E+00	0.00E+00	2.88E-04	0.00E+00	0.00E+00	2.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-04	0.00E+00	0.00E+00	2.88E-04
439	ALL	495226	3761616	NonCancer	0.00E+00	0.00E+00	2.82E-04	0.00E+00	0.00E+00	2.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-04	0.00E+00	0.00E+00	2.82E-04
440	ALL	495246	3761616	NonCancer	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	2.78E-04
441	ALL	495266	3761616	NonCancer	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	2.73E-04
442	ALL	495286	3761616	NonCancer	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	2.68E-04
443	ALL	495306	3761616	NonCancer	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	2.63E-04
444	ALL	495326	3761616	NonCancer	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	2.58E-04
445	ALL	495346	3761616	NonCancer	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	2.53E-04
446	ALL	495366	3761616	NonCancer	0.00E+00	0.00E+00	2.49E-04	0.00E+00	0.00E+00	2.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04	0.00E+00	0.00E+00	2.49E-04
447	ALL	495386	3761616	NonCancer	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	2.44E-04
448	ALL	495406	3761616	NonCancer	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	2.40E-04
449	ALL	495426	3761616	NonCancer	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	2.36E-04
450	ALL	495446	3761616	NonCancer	0.00E+00	0.00E+00	2.31E-04	0.00E+00	0.00E+00	2.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-04	0.00E+00	0.00E+00	2.31E-04
451	ALL	495466	3761616	NonCancer	0.00E+00	0.00E+00	2.26E-04	0.00E+00	0.00E+00	2.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04	0.00E+00	0.00E+00	2.26E-04
452	ALL	495486	3761616	NonCancer	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	2.22E-04
453	ALL	495506	3761616	NonCancer	0.00E+00	0.00E+00	2.19E-04	0.00E+00	0.00E+00	2.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04	0.00E+00	0.00E+00	2.19E-04
454	ALL	495526	3761616	NonCancer	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	2.15E-04
455	ALL	494846	3761636	NonCancer	0.00E+00	0.00E+00	4.44E-04	0.00E+00	0.00E+00	4.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-04	0.00E+00	0.00E+00	4.44E-04
456	ALL	494866	3761636	NonCancer	0.00E+00	0.00E+00	4.35E-04	0.00E+00	0.00E+00	4.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-04	0.00E+00	0.00E+00	4.35E-04
457	ALL	494886	3761636	NonCancer	0.00E+00	0.00E+00	4.25E-04	0.00E+00	0.00E+00	4.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-04	0.00E+00	0.00E+00	4.25E-04
458	ALL	494906	3761636	NonCancer	0.00E+00	0.00E+00	4.07E-04	0.00E+00	0.00E+00	4.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-04	0.00E+00	0.00E+00	4.07E-04
459	ALL	494926	3761636	NonCancer	0.00E+00	0.00E+00	3.95E-04	0.00E+00	0.00E+00	3.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-04	0.00E+00	0.00E+00	3.95E-04
460	ALL	494946	3761636	NonCancer	0.00E+00	0.00E+00	3.86E-04	0.00E+00	0.00E+00	3.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-04	0.00E+00	0.00E+00	3.86E-04
461	ALL	494966	3761636	NonCancer	0.00E+00	0.00E+00	3.76E-04	0.00E+00	0.00E+00	3.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-04	0.00E+00	0.00E+00	3.76E-04
462	ALL	494986	3761636	NonCancer	0.00E+00	0.00E+00	3.63E-04	0.00E+00	0.00E+00	3.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-04	0.00E+00	0.00E+00	3.63E-04
463	ALL	495006	3761636	NonCancer	0.00E+00	0.00E+00	3.53E-04	0.00E+00	0.00E+00	3.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-04	0.00E+00	0.00E+00	3.53E-04
464	ALL	495026	3761636	NonCancer	0.00E+00	0.00E+00	3.43E-04	0.00E+00	0.00E+00	3.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-04	0.00E+00	0.00E+00	3.43E-04
465	ALL	495046	3761636	NonCancer	0.00E+00	0.00E+00	3.36E-04	0.00E+00	0.00E+00	3.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-04	0.00E+00	0.00E+00	3.36E-04
466	ALL	495066	3761636	NonCancer	0.00E+00	0.00E+00	3.30E-04	0.00E+00	0.00E+00	3.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-04	0.00E+00	0.00E+00	3.30E-04
467	ALL	495086	3761636	NonCancer	0.00E+00	0.00E+00	3.21E-04	0.00E+00	0.00E+00	3.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-04	0.00E+00	0.00E+00	3.21E-04

468	ALL	495106	3761636	NonCancer	0.00E+00	0.00E+00	3.14E-04	0.00E+00	0.00E+00	3.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-04	0.00E+00	0.00E+00	3.14E-04
469	ALL	495126	3761636	NonCancer	0.00E+00	0.00E+00	3.09E-04	0.00E+00	0.00E+00	3.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-04	0.00E+00	0.00E+00	3.09E-04
470	ALL	495146	3761636	NonCancer	0.00E+00	0.00E+00	3.04E-04	0.00E+00	0.00E+00	3.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-04	0.00E+00	0.00E+00	3.04E-04
471	ALL	495166	3761636	NonCancer	0.00E+00	0.00E+00	2.97E-04	0.00E+00	0.00E+00	2.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04	0.00E+00	0.00E+00	2.97E-04
472	ALL	495186	3761636	NonCancer	0.00E+00	0.00E+00	2.92E-04	0.00E+00	0.00E+00	2.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-04	0.00E+00	0.00E+00	2.92E-04
473	ALL	495206	3761636	NonCancer	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	2.86E-04
474	ALL	495226	3761636	NonCancer	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	2.81E-04
475	ALL	495246	3761636	NonCancer	0.00E+00	0.00E+00	2.76E-04	0.00E+00	0.00E+00	2.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04	0.00E+00	0.00E+00	2.76E-04
476	ALL	495266	3761636	NonCancer	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	2.71E-04
477	ALL	495286	3761636	NonCancer	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	2.66E-04
478	ALL	495306	3761636	NonCancer	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	2.61E-04
479	ALL	495326	3761636	NonCancer	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	2.56E-04
480	ALL	495346	3761636	NonCancer	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	2.51E-04
481	ALL	495366	3761636	NonCancer	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	2.46E-04
482	ALL	495386	3761636	NonCancer	0.00E+00	0.00E+00	2.42E-04	0.00E+00	0.00E+00	2.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-04	0.00E+00	0.00E+00	2.42E-04
483	ALL	495406	3761636	NonCancer	0.00E+00	0.00E+00	2.38E-04	0.00E+00	0.00E+00	2.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04	0.00E+00	0.00E+00	2.38E-04
484	ALL	495426	3761636	NonCancer	0.00E+00	0.00E+00	2.33E-04	0.00E+00	0.00E+00	2.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04	0.00E+00	0.00E+00	2.33E-04
485	ALL	495446	3761636	NonCancer	0.00E+00	0.00E+00	2.29E-04	0.00E+00	0.00E+00	2.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04	0.00E+00	0.00E+00	2.29E-04
486	ALL	495466	3761636	NonCancer	0.00E+00	0.00E+00	2.24E-04	0.00E+00	0.00E+00	2.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-04	0.00E+00	0.00E+00	2.24E-04
487	ALL	495486	3761636	NonCancer	0.00E+00	0.00E+00	2.20E-04	0.00E+00	0.00E+00	2.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04	0.00E+00	0.00E+00	2.20E-04
488	ALL	495506	3761636	NonCancer	0.00E+00	0.00E+00	2.16E-04	0.00E+00	0.00E+00	2.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04	0.00E+00	0.00E+00	2.16E-04
489	ALL	495526	3761636	NonCancer	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	2.13E-04
490	ALL	494846	3761656	NonCancer	0.00E+00	0.00E+00	4.33E-04	0.00E+00	0.00E+00	4.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-04	0.00E+00	0.00E+00	4.33E-04
491	ALL	494866	3761656	NonCancer	0.00E+00	0.00E+00	4.21E-04	0.00E+00	0.00E+00	4.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-04	0.00E+00	0.00E+00	4.21E-04
492	ALL	494886	3761656	NonCancer	0.00E+00	0.00E+00	4.09E-04	0.00E+00	0.00E+00	4.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-04	0.00E+00	0.00E+00	4.09E-04
493	ALL	494906	3761656	NonCancer	0.00E+00	0.00E+00	3.92E-04	0.00E+00	0.00E+00	3.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-04	0.00E+00	0.00E+00	3.92E-04
494	ALL	494926	3761656	NonCancer	0.00E+00	0.00E+00	3.83E-04	0.00E+00	0.00E+00	3.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-04	0.00E+00	0.00E+00	3.83E-04
495	ALL	494946	3761656	NonCancer	0.00E+00	0.00E+00	3.76E-04	0.00E+00	0.00E+00	3.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-04	0.00E+00	0.00E+00	3.76E-04
496	ALL	494966	3761656	NonCancer	0.00E+00	0.00E+00	3.68E-04	0.00E+00	0.00E+00	3.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-04	0.00E+00	0.00E+00	3.68E-04
497	ALL	494986	3761656	NonCancer	0.00E+00	0.00E+00	3.56E-04	0.00E+00	0.00E+00	3.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-04	0.00E+00	0.00E+00	3.56E-04
498	ALL	495006	3761656	NonCancer	0.00E+00	0.00E+00	3.49E-04	0.00E+00	0.00E+00	3.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-04	0.00E+00	0.00E+00	3.49E-04
499	ALL	495026	3761656	NonCancer	0.00E+00	0.00E+00	3.43E-04	0.00E+00	0.00E+00	3.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-04	0.00E+00	0.00E+00	3.43E-04
500	ALL	495046	3761656	NonCancer	0.00E+00	0.00E+00	3.38E-04	0.00E+00	0.00E+00	3.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-04	0.00E+00	0.00E+00	3.38E-04
501	ALL	495066	3761656	NonCancer	0.00E+00	0.00E+00	3.32E-04	0.00E+00	0.00E+00	3.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-04	0.00E+00	0.00E+00	3.32E-04
502	ALL	495086	3761656	NonCancer	0.00E+00	0.00E+00	3.23E-04	0.00E+00	0.00E+00	3.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-04	0.00E+00	0.00E+00	3.23E-04
503	ALL	495106	3761656	NonCancer	0.00E+00	0.00E+00	3.16E-04	0.00E+00	0.00E+00	3.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-04	0.00E+00	0.00E+00	3.16E-04
504	ALL	495126	3761656	NonCancer	0.00E+00	0.00E+00	3.10E-04	0.00E+00	0.00E+00	3.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-04	0.00E+00	0.00E+00	3.10E-04
505	ALL	495146	3761656	NonCancer	0.00E+00	0.00E+00	3.05E-04	0.00E+00	0.00E+00	3.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-04	0.00E+00	0.00E+00	3.05E-04
506	ALL	495166	3761656	NonCancer	0.00E+00	0.00E+00	2.98E-04	0.00E+00	0.00E+00	2.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-04	0.00E+00	0.00E+00	2.98E-04
507	ALL	495186	3761656	NonCancer	0.00E+00	0.00E+00	2.93E-04	0.00E+00	0.00E+00	2.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-04	0.00E+00	0.00E+00	2.93E-04
508	ALL	495206	3761656	NonCancer	0.00E+00	0.00E+00	2.88E-04	0.00E+00	0.00E+00	2.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-04	0.00E+00	0.00E+00	2.88E-04
509	ALL	495226	3761656	NonCancer	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	2.84E-04
510	ALL	495246	3761656	NonCancer	0.00E+00	0.00E+00	2.79E-04	0.00E+00	0.00E+00	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-04	0.00E+00	0.00E+00	2.79E-04
511	ALL	495266	3761656	NonCancer	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	2.74E-04
512	ALL	495286	3761656	NonCancer	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	2.69E-04
513	ALL	495306	3761656	NonCancer	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	2.63E-04
514	ALL	495326	3761656	NonCancer	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	2.58E-04
515	ALL	495346	3761656	NonCancer	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	2.52E-04
516	ALL	495366	3761656	NonCancer	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	2.47E-04
517	ALL	495386	3761656	NonCancer	0.00E+00	0.00E+00	2.42E-04	0.00E+00	0.00E+00	2.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-04	0.00E+00	0.00E+00	2.42E-04
518	ALL	495406	3761656	NonCancer	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	2.39E-04
519	ALL	495426	3761656	NonCancer	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	2.36E-04

520	ALL	495446	3761656	NonCancer	0.00E+00	0.00E+00	2.32E-04	0.00E+00	0.00E+00	2.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04	0.00E+00	0.00E+00	2.32E-04
521	ALL	495466	3761656	NonCancer	0.00E+00	0.00E+00	2.27E-04	0.00E+00	0.00E+00	2.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-04	0.00E+00	0.00E+00	2.27E-04
522	ALL	495486	3761656	NonCancer	0.00E+00	0.00E+00	2.23E-04	0.00E+00	0.00E+00	2.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04	0.00E+00	0.00E+00	2.23E-04
523	ALL	495506	3761656	NonCancer	0.00E+00	0.00E+00	2.19E-04	0.00E+00	0.00E+00	2.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04	0.00E+00	0.00E+00	2.19E-04
524	ALL	495526	3761656	NonCancer	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	2.15E-04
525	ALL	494846	3761676	NonCancer	0.00E+00	0.00E+00	4.34E-04	0.00E+00	0.00E+00	4.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-04	0.00E+00	0.00E+00	4.34E-04
526	ALL	494866	3761676	NonCancer	0.00E+00	0.00E+00	4.26E-04	0.00E+00	0.00E+00	4.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-04	0.00E+00	0.00E+00	4.26E-04
527	ALL	494886	3761676	NonCancer	0.00E+00	0.00E+00	4.13E-04	0.00E+00	0.00E+00	4.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-04	0.00E+00	0.00E+00	4.13E-04
528	ALL	494906	3761676	NonCancer	0.00E+00	0.00E+00	3.95E-04	0.00E+00	0.00E+00	3.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-04	0.00E+00	0.00E+00	3.95E-04
529	ALL	494926	3761676	NonCancer	0.00E+00	0.00E+00	3.84E-04	0.00E+00	0.00E+00	3.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-04	0.00E+00	0.00E+00	3.84E-04
530	ALL	494946	3761676	NonCancer	0.00E+00	0.00E+00	3.75E-04	0.00E+00	0.00E+00	3.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-04	0.00E+00	0.00E+00	3.75E-04
531	ALL	494966	3761676	NonCancer	0.00E+00	0.00E+00	3.64E-04	0.00E+00	0.00E+00	3.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-04	0.00E+00	0.00E+00	3.64E-04
532	ALL	494986	3761676	NonCancer	0.00E+00	0.00E+00	3.52E-04	0.00E+00	0.00E+00	3.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-04	0.00E+00	0.00E+00	3.52E-04
533	ALL	495006	3761676	NonCancer	0.00E+00	0.00E+00	3.41E-04	0.00E+00	0.00E+00	3.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-04	0.00E+00	0.00E+00	3.41E-04
534	ALL	495026	3761676	NonCancer	0.00E+00	0.00E+00	3.35E-04	0.00E+00	0.00E+00	3.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04	0.00E+00	0.00E+00	3.35E-04
535	ALL	495046	3761676	NonCancer	0.00E+00	0.00E+00	3.33E-04	0.00E+00	0.00E+00	3.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-04	0.00E+00	0.00E+00	3.33E-04
536	ALL	495066	3761676	NonCancer	0.00E+00	0.00E+00	3.30E-04	0.00E+00	0.00E+00	3.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-04	0.00E+00	0.00E+00	3.30E-04
537	ALL	495086	3761676	NonCancer	0.00E+00	0.00E+00	3.22E-04	0.00E+00	0.00E+00	3.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-04	0.00E+00	0.00E+00	3.22E-04
538	ALL	495106	3761676	NonCancer	0.00E+00	0.00E+00	3.16E-04	0.00E+00	0.00E+00	3.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-04	0.00E+00	0.00E+00	3.16E-04
539	ALL	495126	3761676	NonCancer	0.00E+00	0.00E+00	3.12E-04	0.00E+00	0.00E+00	3.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04	0.00E+00	0.00E+00	3.12E-04
540	ALL	495146	3761676	NonCancer	0.00E+00	0.00E+00	3.07E-04	0.00E+00	0.00E+00	3.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-04	0.00E+00	0.00E+00	3.07E-04
541	ALL	495166	3761676	NonCancer	0.00E+00	0.00E+00	3.01E-04	0.00E+00	0.00E+00	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04	0.00E+00	0.00E+00	3.01E-04
542	ALL	495186	3761676	NonCancer	0.00E+00	0.00E+00	2.94E-04	0.00E+00	0.00E+00	2.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-04	0.00E+00	0.00E+00	2.94E-04
543	ALL	495206	3761676	NonCancer	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	2.86E-04
544	ALL	495226	3761676	NonCancer	0.00E+00	0.00E+00	2.79E-04	0.00E+00	0.00E+00	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-04	0.00E+00	0.00E+00	2.79E-04
545	ALL	495246	3761676	NonCancer	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	2.73E-04
546	ALL	495266	3761676	NonCancer	0.00E+00	0.00E+00	2.67E-04	0.00E+00	0.00E+00	2.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-04	0.00E+00	0.00E+00	2.67E-04
547	ALL	495286	3761676	NonCancer	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	2.64E-04
548	ALL	495306	3761676	NonCancer	0.00E+00	0.00E+00	2.60E-04	0.00E+00	0.00E+00	2.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04	0.00E+00	0.00E+00	2.60E-04
549	ALL	495326	3761676	NonCancer	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	2.56E-04
550	ALL	495346	3761676	NonCancer	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	2.52E-04
551	ALL	495366	3761676	NonCancer	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	2.47E-04
552	ALL	495386	3761676	NonCancer	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	2.44E-04
553	ALL	495406	3761676	NonCancer	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	2.40E-04
554	ALL	495426	3761676	NonCancer	0.00E+00	0.00E+00	2.37E-04	0.00E+00	0.00E+00	2.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-04	0.00E+00	0.00E+00	2.37E-04
555	ALL	495446	3761676	NonCancer	0.00E+00	0.00E+00	2.35E-04	0.00E+00	0.00E+00	2.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-04	0.00E+00	0.00E+00	2.35E-04
556	ALL	495466	3761676	NonCancer	0.00E+00	0.00E+00	2.30E-04	0.00E+00	0.00E+00	2.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04	0.00E+00	0.00E+00	2.30E-04
557	ALL	495486	3761676	NonCancer	0.00E+00	0.00E+00	2.26E-04	0.00E+00	0.00E+00	2.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04	0.00E+00	0.00E+00	2.26E-04
558	ALL	495506	3761676	NonCancer	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	2.22E-04
559	ALL	495526	3761676	NonCancer	0.00E+00	0.00E+00	2.18E-04	0.00E+00	0.00E+00	2.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04	0.00E+00	0.00E+00	2.18E-04
560	ALL	494846	3761696	NonCancer	0.00E+00	0.00E+00	4.36E-04	0.00E+00	0.00E+00	4.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-04	0.00E+00	0.00E+00	4.36E-04
561	ALL	494866	3761696	NonCancer	0.00E+00	0.00E+00	4.24E-04	0.00E+00	0.00E+00	4.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-04	0.00E+00	0.00E+00	4.24E-04
562	ALL	494886	3761696	NonCancer	0.00E+00	0.00E+00	4.12E-04	0.00E+00	0.00E+00	4.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-04	0.00E+00	0.00E+00	4.12E-04
563	ALL	494906	3761696	NonCancer	0.00E+00	0.00E+00	3.93E-04	0.00E+00	0.00E+00	3.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-04	0.00E+00	0.00E+00	3.93E-04
564	ALL	494926	3761696	NonCancer	0.00E+00	0.00E+00	3.79E-04	0.00E+00	0.00E+00	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-04	0.00E+00	0.00E+00	3.79E-04
565	ALL	494946	3761696	NonCancer	0.00E+00	0.00E+00	3.73E-04	0.00E+00	0.00E+00	3.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-04	0.00E+00	0.00E+00	3.73E-04
566	ALL	494966	3761696	NonCancer	0.00E+00	0.00E+00	3.65E-04	0.00E+00	0.00E+00	3.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-04	0.00E+00	0.00E+00	3.65E-04
567	ALL	494986	3761696	NonCancer	0.00E+00	0.00E+00	3.53E-04	0.00E+00	0.00E+00	3.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-04	0.00E+00	0.00E+00	3.53E-04
568	ALL	495006	3761696	NonCancer	0.00E+00	0.00E+00	3.45E-04	0.00E+00	0.00E+00	3.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-04	0.00E+00	0.00E+00	3.45E-04
569	ALL	495026	3761696	NonCancer	0.00E+00	0.00E+00	3.37E-04	0.00E+00	0.00E+00	3.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-04	0.00E+00	0.00E+00	3.37E-04
570	ALL	495046	3761696	NonCancer	0.00E+00	0.00E+00	3.29E-04	0.00E+00	0.00E+00	3.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-04	0.00E+00	0.00E+00	3.29E-04
571	ALL	495066	3761696	NonCancer	0.00E+00	0.00E+00	3.19E-04	0.00E+00	0.00E+00	3.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-04	0.00E+00	0.00E+00	3.19E-04

572	ALL	495086	3761696	NonCancer	0.00E+00	0.00E+00	3.10E-04	0.00E+00	0.00E+00	3.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-04	0.00E+00	0.00E+00	3.10E-04
573	ALL	495106	3761696	NonCancer	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	3.06E-04
574	ALL	495126	3761696	NonCancer	0.00E+00	0.00E+00	3.03E-04	0.00E+00	0.00E+00	3.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-04	0.00E+00	0.00E+00	3.03E-04
575	ALL	495146	3761696	NonCancer	0.00E+00	0.00E+00	3.00E-04	0.00E+00	0.00E+00	3.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04	0.00E+00	0.00E+00	3.00E-04
576	ALL	495166	3761696	NonCancer	0.00E+00	0.00E+00	2.95E-04	0.00E+00	0.00E+00	2.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-04	0.00E+00	0.00E+00	2.95E-04
577	ALL	495186	3761696	NonCancer	0.00E+00	0.00E+00	2.91E-04	0.00E+00	0.00E+00	2.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-04	0.00E+00	0.00E+00	2.91E-04
578	ALL	495206	3761696	NonCancer	0.00E+00	0.00E+00	2.88E-04	0.00E+00	0.00E+00	2.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-04	0.00E+00	0.00E+00	2.88E-04
579	ALL	495226	3761696	NonCancer	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	2.84E-04
580	ALL	495246	3761696	NonCancer	0.00E+00	0.00E+00	2.80E-04	0.00E+00	0.00E+00	2.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-04	0.00E+00	0.00E+00	2.80E-04
581	ALL	495266	3761696	NonCancer	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	2.74E-04
582	ALL	495286	3761696	NonCancer	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	2.69E-04
583	ALL	495306	3761696	NonCancer	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	2.63E-04
584	ALL	495326	3761696	NonCancer	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	2.58E-04
585	ALL	495346	3761696	NonCancer	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	2.52E-04
586	ALL	495366	3761696	NonCancer	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	2.45E-04
587	ALL	495386	3761696	NonCancer	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	2.39E-04
588	ALL	495406	3761696	NonCancer	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	2.36E-04
589	ALL	495426	3761696	NonCancer	0.00E+00	0.00E+00	2.33E-04	0.00E+00	0.00E+00	2.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04	0.00E+00	0.00E+00	2.33E-04
590	ALL	495446	3761696	NonCancer	0.00E+00	0.00E+00	2.31E-04	0.00E+00	0.00E+00	2.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-04	0.00E+00	0.00E+00	2.31E-04
591	ALL	495466	3761696	NonCancer	0.00E+00	0.00E+00	2.29E-04	0.00E+00	0.00E+00	2.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04	0.00E+00	0.00E+00	2.29E-04
592	ALL	495486	3761696	NonCancer	0.00E+00	0.00E+00	2.25E-04	0.00E+00	0.00E+00	2.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04	0.00E+00	0.00E+00	2.25E-04
593	ALL	495506	3761696	NonCancer	0.00E+00	0.00E+00	2.21E-04	0.00E+00	0.00E+00	2.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04	0.00E+00	0.00E+00	2.21E-04
594	ALL	495526	3761696	NonCancer	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	2.17E-04
595	ALL	494846	3761716	NonCancer	0.00E+00	0.00E+00	4.34E-04	0.00E+00	0.00E+00	4.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-04	0.00E+00	0.00E+00	4.34E-04
596	ALL	494866	3761716	NonCancer	0.00E+00	0.00E+00	4.18E-04	0.00E+00	0.00E+00	4.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-04	0.00E+00	0.00E+00	4.18E-04
597	ALL	494886	3761716	NonCancer	0.00E+00	0.00E+00	4.01E-04	0.00E+00	0.00E+00	4.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-04	0.00E+00	0.00E+00	4.01E-04
598	ALL	494906	3761716	NonCancer	0.00E+00	0.00E+00	3.91E-04	0.00E+00	0.00E+00	3.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-04	0.00E+00	0.00E+00	3.91E-04
599	ALL	494926	3761716	NonCancer	0.00E+00	0.00E+00	3.83E-04	0.00E+00	0.00E+00	3.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-04	0.00E+00	0.00E+00	3.83E-04
600	ALL	494946	3761716	NonCancer	0.00E+00	0.00E+00	3.74E-04	0.00E+00	0.00E+00	3.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-04	0.00E+00	0.00E+00	3.74E-04
601	ALL	494966	3761716	NonCancer	0.00E+00	0.00E+00	3.66E-04	0.00E+00	0.00E+00	3.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-04	0.00E+00	0.00E+00	3.66E-04
602	ALL	494986	3761716	NonCancer	0.00E+00	0.00E+00	3.55E-04	0.00E+00	0.00E+00	3.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-04	0.00E+00	0.00E+00	3.55E-04
603	ALL	495006	3761716	NonCancer	0.00E+00	0.00E+00	3.44E-04	0.00E+00	0.00E+00	3.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-04	0.00E+00	0.00E+00	3.44E-04
604	ALL	495026	3761716	NonCancer	0.00E+00	0.00E+00	3.34E-04	0.00E+00	0.00E+00	3.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-04	0.00E+00	0.00E+00	3.34E-04
605	ALL	495046	3761716	NonCancer	0.00E+00	0.00E+00	3.28E-04	0.00E+00	0.00E+00	3.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-04	0.00E+00	0.00E+00	3.28E-04
606	ALL	495066	3761716	NonCancer	0.00E+00	0.00E+00	3.23E-04	0.00E+00	0.00E+00	3.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-04	0.00E+00	0.00E+00	3.23E-04
607	ALL	495086	3761716	NonCancer	0.00E+00	0.00E+00	3.15E-04	0.00E+00	0.00E+00	3.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-04	0.00E+00	0.00E+00	3.15E-04
608	ALL	495106	3761716	NonCancer	0.00E+00	0.00E+00	3.08E-04	0.00E+00	0.00E+00	3.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-04	0.00E+00	0.00E+00	3.08E-04
609	ALL	495126	3761716	NonCancer	0.00E+00	0.00E+00	3.01E-04	0.00E+00	0.00E+00	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04	0.00E+00	0.00E+00	3.01E-04
610	ALL	495146	3761716	NonCancer	0.00E+00	0.00E+00	2.93E-04	0.00E+00	0.00E+00	2.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-04	0.00E+00	0.00E+00	2.93E-04
611	ALL	495166	3761716	NonCancer	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	2.86E-04
612	ALL	495186	3761716	NonCancer	0.00E+00	0.00E+00	2.83E-04	0.00E+00	0.00E+00	2.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-04	0.00E+00	0.00E+00	2.83E-04
613	ALL	495206	3761716	NonCancer	0.00E+00	0.00E+00	2.82E-04	0.00E+00	0.00E+00	2.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-04	0.00E+00	0.00E+00	2.82E-04
614	ALL	495226	3761716	NonCancer	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	2.81E-04
615	ALL	495246	3761716	NonCancer	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	2.78E-04
616	ALL	495266	3761716	NonCancer	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	2.73E-04
617	ALL	495286	3761716	NonCancer	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	2.68E-04
618	ALL	495306	3761716	NonCancer	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	2.63E-04
619	ALL	495326	3761716	NonCancer	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	2.58E-04
620	ALL	495346	3761716	NonCancer	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	2.53E-04
621	ALL	495366	3761716	NonCancer	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	2.50E-04
622	ALL	495386	3761716	NonCancer	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	2.46E-04
623	ALL	495406	3761716	NonCancer	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	2.41E-04

624	ALL	495426	3761716	NonCancer	0.00E+00	0.00E+00	2.37E-04	0.00E+00	0.00E+00	2.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-04	0.00E+00	0.00E+00	2.37E-04
625	ALL	495446	3761716	NonCancer	0.00E+00	0.00E+00	2.32E-04	0.00E+00	0.00E+00	2.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04	0.00E+00	0.00E+00	2.32E-04
626	ALL	495466	3761716	NonCancer	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	2.28E-04
627	ALL	495486	3761716	NonCancer	0.00E+00	0.00E+00	2.23E-04	0.00E+00	0.00E+00	2.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04	0.00E+00	0.00E+00	2.23E-04
628	ALL	495506	3761716	NonCancer	0.00E+00	0.00E+00	2.18E-04	0.00E+00	0.00E+00	2.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04	0.00E+00	0.00E+00	2.18E-04
629	ALL	495526	3761716	NonCancer	0.00E+00	0.00E+00	2.12E-04	0.00E+00	0.00E+00	2.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04	0.00E+00	0.00E+00	2.12E-04
630	ALL	495546	3761716	NonCancer	0.00E+00	0.00E+00	2.09E-04	0.00E+00	0.00E+00	2.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04	0.00E+00	0.00E+00	2.09E-04
631	ALL	494846	3761736	NonCancer	0.00E+00	0.00E+00	4.21E-04	0.00E+00	0.00E+00	4.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-04	0.00E+00	0.00E+00	4.21E-04
632	ALL	494866	3761736	NonCancer	0.00E+00	0.00E+00	4.20E-04	0.00E+00	0.00E+00	4.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-04	0.00E+00	0.00E+00	4.20E-04
633	ALL	494886	3761736	NonCancer	0.00E+00	0.00E+00	4.09E-04	0.00E+00	0.00E+00	4.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-04	0.00E+00	0.00E+00	4.09E-04
634	ALL	494906	3761736	NonCancer	0.00E+00	0.00E+00	3.93E-04	0.00E+00	0.00E+00	3.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-04	0.00E+00	0.00E+00	3.93E-04
635	ALL	494926	3761736	NonCancer	0.00E+00	0.00E+00	3.80E-04	0.00E+00	0.00E+00	3.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-04	0.00E+00	0.00E+00	3.80E-04
636	ALL	494946	3761736	NonCancer	0.00E+00	0.00E+00	3.68E-04	0.00E+00	0.00E+00	3.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-04	0.00E+00	0.00E+00	3.68E-04
637	ALL	494966	3761736	NonCancer	0.00E+00	0.00E+00	3.64E-04	0.00E+00	0.00E+00	3.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-04	0.00E+00	0.00E+00	3.64E-04
638	ALL	494986	3761736	NonCancer	0.00E+00	0.00E+00	3.55E-04	0.00E+00	0.00E+00	3.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-04	0.00E+00	0.00E+00	3.55E-04
639	ALL	495006	3761736	NonCancer	0.00E+00	0.00E+00	3.46E-04	0.00E+00	0.00E+00	3.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-04	0.00E+00	0.00E+00	3.46E-04
640	ALL	495026	3761736	NonCancer	0.00E+00	0.00E+00	3.40E-04	0.00E+00	0.00E+00	3.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-04	0.00E+00	0.00E+00	3.40E-04
641	ALL	495046	3761736	NonCancer	0.00E+00	0.00E+00	3.34E-04	0.00E+00	0.00E+00	3.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-04	0.00E+00	0.00E+00	3.34E-04
642	ALL	495066	3761736	NonCancer	0.00E+00	0.00E+00	3.25E-04	0.00E+00	0.00E+00	3.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-04	0.00E+00	0.00E+00	3.25E-04
643	ALL	495086	3761736	NonCancer	0.00E+00	0.00E+00	3.14E-04	0.00E+00	0.00E+00	3.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-04	0.00E+00	0.00E+00	3.14E-04
644	ALL	495106	3761736	NonCancer	0.00E+00	0.00E+00	3.04E-04	0.00E+00	0.00E+00	3.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-04	0.00E+00	0.00E+00	3.04E-04
645	ALL	495126	3761736	NonCancer	0.00E+00	0.00E+00	3.02E-04	0.00E+00	0.00E+00	3.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-04	0.00E+00	0.00E+00	3.02E-04
646	ALL	495146	3761736	NonCancer	0.00E+00	0.00E+00	2.98E-04	0.00E+00	0.00E+00	2.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-04	0.00E+00	0.00E+00	2.98E-04
647	ALL	495166	3761736	NonCancer	0.00E+00	0.00E+00	2.94E-04	0.00E+00	0.00E+00	2.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-04	0.00E+00	0.00E+00	2.94E-04
648	ALL	495186	3761736	NonCancer	0.00E+00	0.00E+00	2.87E-04	0.00E+00	0.00E+00	2.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-04	0.00E+00	0.00E+00	2.87E-04
649	ALL	495206	3761736	NonCancer	0.00E+00	0.00E+00	2.83E-04	0.00E+00	0.00E+00	2.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-04	0.00E+00	0.00E+00	2.83E-04
650	ALL	495226	3761736	NonCancer	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	2.78E-04
651	ALL	495246	3761736	NonCancer	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	2.72E-04
652	ALL	495266	3761736	NonCancer	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	2.65E-04
653	ALL	495286	3761736	NonCancer	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	2.62E-04
654	ALL	495306	3761736	NonCancer	0.00E+00	0.00E+00	2.59E-04	0.00E+00	0.00E+00	2.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-04	0.00E+00	0.00E+00	2.59E-04
655	ALL	495326	3761736	NonCancer	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	2.56E-04
656	ALL	495346	3761736	NonCancer	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	2.53E-04
657	ALL	495366	3761736	NonCancer	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	2.51E-04
658	ALL	495386	3761736	NonCancer	0.00E+00	0.00E+00	2.48E-04	0.00E+00	0.00E+00	2.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04	0.00E+00	0.00E+00	2.48E-04
659	ALL	495406	3761736	NonCancer	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	2.44E-04
660	ALL	495426	3761736	NonCancer	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	2.39E-04
661	ALL	495446	3761736	NonCancer	0.00E+00	0.00E+00	2.35E-04	0.00E+00	0.00E+00	2.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-04	0.00E+00	0.00E+00	2.35E-04
662	ALL	495466	3761736	NonCancer	0.00E+00	0.00E+00	2.31E-04	0.00E+00	0.00E+00	2.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-04	0.00E+00	0.00E+00	2.31E-04
663	ALL	495486	3761736	NonCancer	0.00E+00	0.00E+00	2.26E-04	0.00E+00	0.00E+00	2.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04	0.00E+00	0.00E+00	2.26E-04
664	ALL	495506	3761736	NonCancer	0.00E+00	0.00E+00	2.21E-04	0.00E+00	0.00E+00	2.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04	0.00E+00	0.00E+00	2.21E-04
665	ALL	495526	3761736	NonCancer	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	2.17E-04
666	ALL	495546	3761736	NonCancer	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	2.13E-04
667	ALL	494846	3761756	NonCancer	0.00E+00	0.00E+00	4.13E-04	0.00E+00	0.00E+00	4.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-04	0.00E+00	0.00E+00	4.13E-04
668	ALL	494866	3761756	NonCancer	0.00E+00	0.00E+00	4.04E-04	0.00E+00	0.00E+00	4.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-04	0.00E+00	0.00E+00	4.04E-04
669	ALL	494886	3761756	NonCancer	0.00E+00	0.00E+00	3.87E-04	0.00E+00	0.00E+00	3.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-04	0.00E+00	0.00E+00	3.87E-04
670	ALL	494906	3761756	NonCancer	0.00E+00	0.00E+00	3.81E-04	0.00E+00	0.00E+00	3.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-04	0.00E+00	0.00E+00	3.81E-04
671	ALL	494926	3761756	NonCancer	0.00E+00	0.00E+00	3.81E-04	0.00E+00	0.00E+00	3.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-04	0.00E+00	0.00E+00	3.81E-04
672	ALL	494946	3761756	NonCancer	0.00E+00	0.00E+00	3.77E-04	0.00E+00	0.00E+00	3.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-04	0.00E+00	0.00E+00	3.77E-04
673	ALL	494966	3761756	NonCancer	0.00E+00	0.00E+00	3.67E-04	0.00E+00	0.00E+00	3.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-04	0.00E+00	0.00E+00	3.67E-04
674	ALL	494986	3761756	NonCancer	0.00E+00	0.00E+00	3.52E-04	0.00E+00	0.00E+00	3.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-04	0.00E+00	0.00E+00	3.52E-04
675	ALL	495006	3761756	NonCancer	0.00E+00	0.00E+00	3.43E-04	0.00E+00	0.00E+00	3.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-04	0.00E+00	0.00E+00	3.43E-04

676	ALL	495026	3761756	NonCancer	0.00E+00	0.00E+00	3.41E-04	0.00E+00	0.00E+00	3.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-04	0.00E+00	0.00E+00	3.41E-04
677	ALL	495046	3761756	NonCancer	0.00E+00	0.00E+00	3.36E-04	0.00E+00	0.00E+00	3.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-04	0.00E+00	0.00E+00	3.36E-04
678	ALL	495066	3761756	NonCancer	0.00E+00	0.00E+00	3.26E-04	0.00E+00	0.00E+00	3.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-04	0.00E+00	0.00E+00	3.26E-04
679	ALL	495086	3761756	NonCancer	0.00E+00	0.00E+00	3.14E-04	0.00E+00	0.00E+00	3.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-04	0.00E+00	0.00E+00	3.14E-04
680	ALL	495106	3761756	NonCancer	0.00E+00	0.00E+00	3.08E-04	0.00E+00	0.00E+00	3.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-04	0.00E+00	0.00E+00	3.08E-04
681	ALL	495126	3761756	NonCancer	0.00E+00	0.00E+00	3.03E-04	0.00E+00	0.00E+00	3.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-04	0.00E+00	0.00E+00	3.03E-04
682	ALL	495146	3761756	NonCancer	0.00E+00	0.00E+00	2.97E-04	0.00E+00	0.00E+00	2.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04	0.00E+00	0.00E+00	2.97E-04
683	ALL	495166	3761756	NonCancer	0.00E+00	0.00E+00	2.90E-04	0.00E+00	0.00E+00	2.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-04	0.00E+00	0.00E+00	2.90E-04
684	ALL	495186	3761756	NonCancer	0.00E+00	0.00E+00	2.80E-04	0.00E+00	0.00E+00	2.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-04	0.00E+00	0.00E+00	2.80E-04
685	ALL	495206	3761756	NonCancer	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	2.78E-04
686	ALL	495226	3761756	NonCancer	0.00E+00	0.00E+00	2.76E-04	0.00E+00	0.00E+00	2.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04	0.00E+00	0.00E+00	2.76E-04
687	ALL	495246	3761756	NonCancer	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	2.74E-04
688	ALL	495266	3761756	NonCancer	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	2.68E-04
689	ALL	495286	3761756	NonCancer	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	2.63E-04
690	ALL	495306	3761756	NonCancer	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	2.58E-04
691	ALL	495326	3761756	NonCancer	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	2.52E-04
692	ALL	495346	3761756	NonCancer	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	2.46E-04
693	ALL	495366	3761756	NonCancer	0.00E+00	0.00E+00	2.43E-04	0.00E+00	0.00E+00	2.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04	0.00E+00	0.00E+00	2.43E-04
694	ALL	495386	3761756	NonCancer	0.00E+00	0.00E+00	2.42E-04	0.00E+00	0.00E+00	2.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-04	0.00E+00	0.00E+00	2.42E-04
695	ALL	495406	3761756	NonCancer	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	2.40E-04
696	ALL	495426	3761756	NonCancer	0.00E+00	0.00E+00	2.37E-04	0.00E+00	0.00E+00	2.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-04	0.00E+00	0.00E+00	2.37E-04
697	ALL	495446	3761756	NonCancer	0.00E+00	0.00E+00	2.33E-04	0.00E+00	0.00E+00	2.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04	0.00E+00	0.00E+00	2.33E-04
698	ALL	495466	3761756	NonCancer	0.00E+00	0.00E+00	2.31E-04	0.00E+00	0.00E+00	2.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-04	0.00E+00	0.00E+00	2.31E-04
699	ALL	495486	3761756	NonCancer	0.00E+00	0.00E+00	2.29E-04	0.00E+00	0.00E+00	2.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04	0.00E+00	0.00E+00	2.29E-04
700	ALL	495506	3761756	NonCancer	0.00E+00	0.00E+00	2.25E-04	0.00E+00	0.00E+00	2.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04	0.00E+00	0.00E+00	2.25E-04
701	ALL	495526	3761756	NonCancer	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	2.22E-04
702	ALL	495546	3761756	NonCancer	0.00E+00	0.00E+00	2.18E-04	0.00E+00	0.00E+00	2.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04	0.00E+00	0.00E+00	2.18E-04
703	ALL	495566	3761756	NonCancer	0.00E+00	0.00E+00	2.14E-04	0.00E+00	0.00E+00	2.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04	0.00E+00	0.00E+00	2.14E-04
704	ALL	494846	3761776	NonCancer	0.00E+00	0.00E+00	3.98E-04	0.00E+00	0.00E+00	3.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-04	0.00E+00	0.00E+00	3.98E-04
705	ALL	494866	3761776	NonCancer	0.00E+00	0.00E+00	3.93E-04	0.00E+00	0.00E+00	3.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-04	0.00E+00	0.00E+00	3.93E-04
706	ALL	494886	3761776	NonCancer	0.00E+00	0.00E+00	3.83E-04	0.00E+00	0.00E+00	3.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-04	0.00E+00	0.00E+00	3.83E-04
707	ALL	494906	3761776	NonCancer	0.00E+00	0.00E+00	3.76E-04	0.00E+00	0.00E+00	3.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-04	0.00E+00	0.00E+00	3.76E-04
708	ALL	494926	3761776	NonCancer	0.00E+00	0.00E+00	3.67E-04	0.00E+00	0.00E+00	3.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-04	0.00E+00	0.00E+00	3.67E-04
709	ALL	494946	3761776	NonCancer	0.00E+00	0.00E+00	3.54E-04	0.00E+00	0.00E+00	3.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-04	0.00E+00	0.00E+00	3.54E-04
710	ALL	494966	3761776	NonCancer	0.00E+00	0.00E+00	3.57E-04	0.00E+00	0.00E+00	3.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-04	0.00E+00	0.00E+00	3.57E-04
711	ALL	494986	3761776	NonCancer	0.00E+00	0.00E+00	3.54E-04	0.00E+00	0.00E+00	3.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-04	0.00E+00	0.00E+00	3.54E-04
712	ALL	495006	3761776	NonCancer	0.00E+00	0.00E+00	3.49E-04	0.00E+00	0.00E+00	3.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-04	0.00E+00	0.00E+00	3.49E-04
713	ALL	495026	3761776	NonCancer	0.00E+00	0.00E+00	3.40E-04	0.00E+00	0.00E+00	3.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-04	0.00E+00	0.00E+00	3.40E-04
714	ALL	495046	3761776	NonCancer	0.00E+00	0.00E+00	3.28E-04	0.00E+00	0.00E+00	3.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-04	0.00E+00	0.00E+00	3.28E-04
715	ALL	495066	3761776	NonCancer	0.00E+00	0.00E+00	3.22E-04	0.00E+00	0.00E+00	3.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-04	0.00E+00	0.00E+00	3.22E-04
716	ALL	495086	3761776	NonCancer	0.00E+00	0.00E+00	3.19E-04	0.00E+00	0.00E+00	3.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-04	0.00E+00	0.00E+00	3.19E-04
717	ALL	495106	3761776	NonCancer	0.00E+00	0.00E+00	3.15E-04	0.00E+00	0.00E+00	3.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-04	0.00E+00	0.00E+00	3.15E-04
718	ALL	495126	3761776	NonCancer	0.00E+00	0.00E+00	3.09E-04	0.00E+00	0.00E+00	3.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-04	0.00E+00	0.00E+00	3.09E-04
719	ALL	495146	3761776	NonCancer	0.00E+00	0.00E+00	3.01E-04	0.00E+00	0.00E+00	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04	0.00E+00	0.00E+00	3.01E-04
720	ALL	495166	3761776	NonCancer	0.00E+00	0.00E+00	2.93E-04	0.00E+00	0.00E+00	2.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-04	0.00E+00	0.00E+00	2.93E-04
721	ALL	495186	3761776	NonCancer	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	2.86E-04
722	ALL	495206	3761776	NonCancer	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	2.78E-04
723	ALL	495226	3761776	NonCancer	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	2.73E-04
724	ALL	495246	3761776	NonCancer	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	2.66E-04
725	ALL	495266	3761776	NonCancer	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	2.58E-04
726	ALL	495286	3761776	NonCancer	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	2.55E-04
727	ALL	495306	3761776	NonCancer	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	2.53E-04

728	ALL	495326	3761776	NonCancer	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	2.51E-04
729	ALL	495346	3761776	NonCancer	0.00E+00	0.00E+00	2.48E-04	0.00E+00	0.00E+00	2.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04	0.00E+00	0.00E+00	2.48E-04
730	ALL	495366	3761776	NonCancer	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	2.45E-04
731	ALL	495386	3761776	NonCancer	0.00E+00	0.00E+00	2.42E-04	0.00E+00	0.00E+00	2.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-04	0.00E+00	0.00E+00	2.42E-04
732	ALL	495406	3761776	NonCancer	0.00E+00	0.00E+00	2.37E-04	0.00E+00	0.00E+00	2.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-04	0.00E+00	0.00E+00	2.37E-04
733	ALL	495426	3761776	NonCancer	0.00E+00	0.00E+00	2.32E-04	0.00E+00	0.00E+00	2.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04	0.00E+00	0.00E+00	2.32E-04
734	ALL	495446	3761776	NonCancer	0.00E+00	0.00E+00	2.26E-04	0.00E+00	0.00E+00	2.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04	0.00E+00	0.00E+00	2.26E-04
735	ALL	495466	3761776	NonCancer	0.00E+00	0.00E+00	2.23E-04	0.00E+00	0.00E+00	2.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04	0.00E+00	0.00E+00	2.23E-04
736	ALL	495486	3761776	NonCancer	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	2.22E-04
737	ALL	495506	3761776	NonCancer	0.00E+00	0.00E+00	2.20E-04	0.00E+00	0.00E+00	2.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04	0.00E+00	0.00E+00	2.20E-04
738	ALL	495526	3761776	NonCancer	0.00E+00	0.00E+00	2.18E-04	0.00E+00	0.00E+00	2.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04	0.00E+00	0.00E+00	2.18E-04
739	ALL	495546	3761776	NonCancer	0.00E+00	0.00E+00	2.16E-04	0.00E+00	0.00E+00	2.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04	0.00E+00	0.00E+00	2.16E-04
740	ALL	495566	3761776	NonCancer	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	2.13E-04
741	ALL	494846	3761796	NonCancer	0.00E+00	0.00E+00	4.08E-04	0.00E+00	0.00E+00	4.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-04	0.00E+00	0.00E+00	4.08E-04
742	ALL	494866	3761796	NonCancer	0.00E+00	0.00E+00	3.88E-04	0.00E+00	0.00E+00	3.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-04	0.00E+00	0.00E+00	3.88E-04
743	ALL	494886	3761796	NonCancer	0.00E+00	0.00E+00	3.76E-04	0.00E+00	0.00E+00	3.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-04	0.00E+00	0.00E+00	3.76E-04
744	ALL	494906	3761796	NonCancer	0.00E+00	0.00E+00	3.72E-04	0.00E+00	0.00E+00	3.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-04	0.00E+00	0.00E+00	3.72E-04
745	ALL	494926	3761796	NonCancer	0.00E+00	0.00E+00	3.67E-04	0.00E+00	0.00E+00	3.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-04	0.00E+00	0.00E+00	3.67E-04
746	ALL	494946	3761796	NonCancer	0.00E+00	0.00E+00	3.60E-04	0.00E+00	0.00E+00	3.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-04	0.00E+00	0.00E+00	3.60E-04
747	ALL	494966	3761796	NonCancer	0.00E+00	0.00E+00	3.55E-04	0.00E+00	0.00E+00	3.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-04	0.00E+00	0.00E+00	3.55E-04
748	ALL	494986	3761796	NonCancer	0.00E+00	0.00E+00	3.44E-04	0.00E+00	0.00E+00	3.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-04	0.00E+00	0.00E+00	3.44E-04
749	ALL	495006	3761796	NonCancer	0.00E+00	0.00E+00	3.38E-04	0.00E+00	0.00E+00	3.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-04	0.00E+00	0.00E+00	3.38E-04
750	ALL	495026	3761796	NonCancer	0.00E+00	0.00E+00	3.35E-04	0.00E+00	0.00E+00	3.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04	0.00E+00	0.00E+00	3.35E-04
751	ALL	495046	3761796	NonCancer	0.00E+00	0.00E+00	3.33E-04	0.00E+00	0.00E+00	3.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-04	0.00E+00	0.00E+00	3.33E-04
752	ALL	495066	3761796	NonCancer	0.00E+00	0.00E+00	3.27E-04	0.00E+00	0.00E+00	3.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-04	0.00E+00	0.00E+00	3.27E-04
753	ALL	495086	3761796	NonCancer	0.00E+00	0.00E+00	3.18E-04	0.00E+00	0.00E+00	3.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-04	0.00E+00	0.00E+00	3.18E-04
754	ALL	495106	3761796	NonCancer	0.00E+00	0.00E+00	3.07E-04	0.00E+00	0.00E+00	3.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-04	0.00E+00	0.00E+00	3.07E-04
755	ALL	495126	3761796	NonCancer	0.00E+00	0.00E+00	3.05E-04	0.00E+00	0.00E+00	3.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-04	0.00E+00	0.00E+00	3.05E-04
756	ALL	495146	3761796	NonCancer	0.00E+00	0.00E+00	3.03E-04	0.00E+00	0.00E+00	3.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-04	0.00E+00	0.00E+00	3.03E-04
757	ALL	495166	3761796	NonCancer	0.00E+00	0.00E+00	2.99E-04	0.00E+00	0.00E+00	2.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04	0.00E+00	0.00E+00	2.99E-04
758	ALL	495186	3761796	NonCancer	0.00E+00	0.00E+00	2.92E-04	0.00E+00	0.00E+00	2.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-04	0.00E+00	0.00E+00	2.92E-04
759	ALL	495206	3761796	NonCancer	0.00E+00	0.00E+00	2.83E-04	0.00E+00	0.00E+00	2.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-04	0.00E+00	0.00E+00	2.83E-04
760	ALL	495226	3761796	NonCancer	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	2.74E-04
761	ALL	495246	3761796	NonCancer	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	2.70E-04
762	ALL	495266	3761796	NonCancer	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	2.64E-04
763	ALL	495286	3761796	NonCancer	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	2.57E-04
764	ALL	495306	3761796	NonCancer	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	2.51E-04
765	ALL	495326	3761796	NonCancer	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	2.45E-04
766	ALL	495346	3761796	NonCancer	0.00E+00	0.00E+00	2.38E-04	0.00E+00	0.00E+00	2.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04	0.00E+00	0.00E+00	2.38E-04
767	ALL	495366	3761796	NonCancer	0.00E+00	0.00E+00	2.35E-04	0.00E+00	0.00E+00	2.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-04	0.00E+00	0.00E+00	2.35E-04
768	ALL	495386	3761796	NonCancer	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	2.34E-04
769	ALL	495406	3761796	NonCancer	0.00E+00	0.00E+00	2.32E-04	0.00E+00	0.00E+00	2.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04	0.00E+00	0.00E+00	2.32E-04
770	ALL	495426	3761796	NonCancer	0.00E+00	0.00E+00	2.30E-04	0.00E+00	0.00E+00	2.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04	0.00E+00	0.00E+00	2.30E-04
771	ALL	495446	3761796	NonCancer	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	2.28E-04
772	ALL	495466	3761796	NonCancer	0.00E+00	0.00E+00	2.25E-04	0.00E+00	0.00E+00	2.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04	0.00E+00	0.00E+00	2.25E-04
773	ALL	495486	3761796	NonCancer	0.00E+00	0.00E+00	2.21E-04	0.00E+00	0.00E+00	2.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04	0.00E+00	0.00E+00	2.21E-04
774	ALL	495506	3761796	NonCancer	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	2.17E-04
775	ALL	495526	3761796	NonCancer	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	2.13E-04
776	ALL	495546	3761796	NonCancer	0.00E+00	0.00E+00	2.08E-04	0.00E+00	0.00E+00	2.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04	0.00E+00	0.00E+00	2.08E-04
777	ALL	495566	3761796	NonCancer	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	2.05E-04
778	ALL	494966	3761816	NonCancer	0.00E+00	0.00E+00	3.50E-04	0.00E+00	0.00E+00	3.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-04	0.00E+00	0.00E+00	3.50E-04
779	ALL	494986	3761816	NonCancer	0.00E+00	0.00E+00	3.43E-04	0.00E+00	0.00E+00	3.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-04	0.00E+00	0.00E+00	3.43E-04

780	ALL	495006	3761816	NonCancer	0.00E+00	0.00E+00	3.39E-04	0.00E+00	0.00E+00	3.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-04	0.00E+00	0.00E+00	3.39E-04
781	ALL	495026	3761816	NonCancer	0.00E+00	0.00E+00	3.31E-04	0.00E+00	0.00E+00	3.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-04	0.00E+00	0.00E+00	3.31E-04
782	ALL	495046	3761816	NonCancer	0.00E+00	0.00E+00	3.21E-04	0.00E+00	0.00E+00	3.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-04	0.00E+00	0.00E+00	3.21E-04
783	ALL	495066	3761816	NonCancer	0.00E+00	0.00E+00	3.20E-04	0.00E+00	0.00E+00	3.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04	0.00E+00	0.00E+00	3.20E-04
784	ALL	495086	3761816	NonCancer	0.00E+00	0.00E+00	3.15E-04	0.00E+00	0.00E+00	3.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-04	0.00E+00	0.00E+00	3.15E-04
785	ALL	495106	3761816	NonCancer	0.00E+00	0.00E+00	3.11E-04	0.00E+00	0.00E+00	3.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-04	0.00E+00	0.00E+00	3.11E-04
786	ALL	495126	3761816	NonCancer	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	3.06E-04
787	ALL	495146	3761816	NonCancer	0.00E+00	0.00E+00	2.98E-04	0.00E+00	0.00E+00	2.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-04	0.00E+00	0.00E+00	2.98E-04
788	ALL	495166	3761816	NonCancer	0.00E+00	0.00E+00	2.88E-04	0.00E+00	0.00E+00	2.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-04	0.00E+00	0.00E+00	2.88E-04
789	ALL	495186	3761816	NonCancer	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	2.86E-04
790	ALL	495206	3761816	NonCancer	0.00E+00	0.00E+00	2.82E-04	0.00E+00	0.00E+00	2.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-04	0.00E+00	0.00E+00	2.82E-04
791	ALL	495226	3761816	NonCancer	0.00E+00	0.00E+00	2.79E-04	0.00E+00	0.00E+00	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-04	0.00E+00	0.00E+00	2.79E-04
792	ALL	495246	3761816	NonCancer	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	2.74E-04
793	ALL	495266	3761816	NonCancer	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	2.68E-04
794	ALL	495286	3761816	NonCancer	0.00E+00	0.00E+00	2.60E-04	0.00E+00	0.00E+00	2.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04	0.00E+00	0.00E+00	2.60E-04
795	ALL	495306	3761816	NonCancer	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	2.55E-04
796	ALL	495326	3761816	NonCancer	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	2.51E-04
797	ALL	495346	3761816	NonCancer	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	2.46E-04
798	ALL	495366	3761816	NonCancer	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	2.39E-04
799	ALL	495386	3761816	NonCancer	0.00E+00	0.00E+00	2.33E-04	0.00E+00	0.00E+00	2.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04	0.00E+00	0.00E+00	2.33E-04
800	ALL	495406	3761816	NonCancer	0.00E+00	0.00E+00	2.27E-04	0.00E+00	0.00E+00	2.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-04	0.00E+00	0.00E+00	2.27E-04
801	ALL	495426	3761816	NonCancer	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	2.22E-04
802	ALL	495446	3761816	NonCancer	0.00E+00	0.00E+00	2.18E-04	0.00E+00	0.00E+00	2.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04	0.00E+00	0.00E+00	2.18E-04
803	ALL	495466	3761816	NonCancer	0.00E+00	0.00E+00	2.16E-04	0.00E+00	0.00E+00	2.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04	0.00E+00	0.00E+00	2.16E-04
804	ALL	495486	3761816	NonCancer	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	2.15E-04
805	ALL	495506	3761816	NonCancer	0.00E+00	0.00E+00	2.14E-04	0.00E+00	0.00E+00	2.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04	0.00E+00	0.00E+00	2.14E-04
806	ALL	495526	3761816	NonCancer	0.00E+00	0.00E+00	2.12E-04	0.00E+00	0.00E+00	2.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04	0.00E+00	0.00E+00	2.12E-04
807	ALL	495546	3761816	NonCancer	0.00E+00	0.00E+00	2.10E-04	0.00E+00	0.00E+00	2.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04	0.00E+00	0.00E+00	2.10E-04
808	ALL	495566	3761816	NonCancer	0.00E+00	0.00E+00	2.08E-04	0.00E+00	0.00E+00	2.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04	0.00E+00	0.00E+00	2.08E-04
809	ALL	495126	3761836	NonCancer	0.00E+00	0.00E+00	3.03E-04	0.00E+00	0.00E+00	3.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-04	0.00E+00	0.00E+00	3.03E-04
810	ALL	495146	3761836	NonCancer	0.00E+00	0.00E+00	2.98E-04	0.00E+00	0.00E+00	2.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-04	0.00E+00	0.00E+00	2.98E-04
811	ALL	495166	3761836	NonCancer	0.00E+00	0.00E+00	2.91E-04	0.00E+00	0.00E+00	2.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-04	0.00E+00	0.00E+00	2.91E-04
812	ALL	495186	3761836	NonCancer	0.00E+00	0.00E+00	2.85E-04	0.00E+00	0.00E+00	2.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-04	0.00E+00	0.00E+00	2.85E-04
813	ALL	495206	3761836	NonCancer	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	2.78E-04
814	ALL	495226	3761836	NonCancer	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	2.72E-04
815	ALL	495366	3761836	NonCancer	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	2.41E-04
816	ALL	495386	3761836	NonCancer	0.00E+00	0.00E+00	2.38E-04	0.00E+00	0.00E+00	2.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04	0.00E+00	0.00E+00	2.38E-04
817	ALL	495406	3761836	NonCancer	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	2.34E-04
818	ALL	495426	3761836	NonCancer	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	2.28E-04
819	ALL	495446	3761836	NonCancer	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	2.22E-04
820	ALL	495466	3761836	NonCancer	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	2.17E-04
821	ALL	495486	3761836	NonCancer	0.00E+00	0.00E+00	2.12E-04	0.00E+00	0.00E+00	2.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04	0.00E+00	0.00E+00	2.12E-04
822	ALL	495506	3761836	NonCancer	0.00E+00	0.00E+00	2.08E-04	0.00E+00	0.00E+00	2.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04	0.00E+00	0.00E+00	2.08E-04
823	ALL	495526	3761836	NonCancer	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	2.04E-04
824	ALL	495546	3761836	NonCancer	0.00E+00	0.00E+00	2.03E-04	0.00E+00	0.00E+00	2.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04	0.00E+00	0.00E+00	2.03E-04
825	ALL	495566	3761836	NonCancer	0.00E+00	0.00E+00	2.02E-04	0.00E+00	0.00E+00	2.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04	0.00E+00	0.00E+00	2.02E-04
826	ALL	495126	3761856	NonCancer	0.00E+00	0.00E+00	2.98E-04	0.00E+00	0.00E+00	2.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-04	0.00E+00	0.00E+00	2.98E-04
827	ALL	495146	3761856	NonCancer	0.00E+00	0.00E+00	2.93E-04	0.00E+00	0.00E+00	2.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-04	0.00E+00	0.00E+00	2.93E-04
828	ALL	495166	3761856	NonCancer	0.00E+00	0.00E+00	2.89E-04	0.00E+00	0.00E+00	2.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-04	0.00E+00	0.00E+00	2.89E-04
829	ALL	495186	3761856	NonCancer	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	2.84E-04
830	ALL	495206	3761856	NonCancer	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	2.78E-04
831	ALL	495226	3761856	NonCancer	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	2.73E-04

832	ALL	495386	3761856	NonCancer	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	2.39E-04
833	ALL	495406	3761856	NonCancer	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	2.34E-04
834	ALL	495426	3761856	NonCancer	0.00E+00	0.00E+00	2.27E-04	0.00E+00	0.00E+00	2.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-04	0.00E+00	0.00E+00	2.27E-04
835	ALL	495446	3761856	NonCancer	0.00E+00	0.00E+00	2.24E-04	0.00E+00	0.00E+00	2.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-04	0.00E+00	0.00E+00	2.24E-04
836	ALL	495466	3761856	NonCancer	0.00E+00	0.00E+00	2.21E-04	0.00E+00	0.00E+00	2.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04	0.00E+00	0.00E+00	2.21E-04
837	ALL	495486	3761856	NonCancer	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	2.17E-04
838	ALL	495506	3761856	NonCancer	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	2.13E-04
839	ALL	495526	3761856	NonCancer	0.00E+00	0.00E+00	2.08E-04	0.00E+00	0.00E+00	2.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04	0.00E+00	0.00E+00	2.08E-04
840	ALL	495546	3761856	NonCancer	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	2.05E-04
841	ALL	495566	3761856	NonCancer	0.00E+00	0.00E+00	2.02E-04	0.00E+00	0.00E+00	2.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04	0.00E+00	0.00E+00	2.02E-04
842	ALL	495126	3761876	NonCancer	0.00E+00	0.00E+00	2.95E-04	0.00E+00	0.00E+00	2.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-04	0.00E+00	0.00E+00	2.95E-04
843	ALL	495146	3761876	NonCancer	0.00E+00	0.00E+00	2.93E-04	0.00E+00	0.00E+00	2.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-04	0.00E+00	0.00E+00	2.93E-04
844	ALL	495166	3761876	NonCancer	0.00E+00	0.00E+00	2.87E-04	0.00E+00	0.00E+00	2.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-04	0.00E+00	0.00E+00	2.87E-04
845	ALL	495186	3761876	NonCancer	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	2.78E-04
846	ALL	495206	3761876	NonCancer	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	2.75E-04
847	ALL	495226	3761876	NonCancer	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	2.72E-04
848	ALL	495386	3761876	NonCancer	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	2.34E-04
849	ALL	495406	3761876	NonCancer	0.00E+00	0.00E+00	2.31E-04	0.00E+00	0.00E+00	2.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-04	0.00E+00	0.00E+00	2.31E-04
850	ALL	495426	3761876	NonCancer	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	2.28E-04
851	ALL	495446	3761876	NonCancer	0.00E+00	0.00E+00	2.25E-04	0.00E+00	0.00E+00	2.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04	0.00E+00	0.00E+00	2.25E-04
852	ALL	495466	3761876	NonCancer	0.00E+00	0.00E+00	2.21E-04	0.00E+00	0.00E+00	2.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04	0.00E+00	0.00E+00	2.21E-04
853	ALL	495486	3761876	NonCancer	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	2.17E-04
854	ALL	495506	3761876	NonCancer	0.00E+00	0.00E+00	2.12E-04	0.00E+00	0.00E+00	2.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04	0.00E+00	0.00E+00	2.12E-04
855	ALL	495526	3761876	NonCancer	0.00E+00	0.00E+00	2.10E-04	0.00E+00	0.00E+00	2.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04	0.00E+00	0.00E+00	2.10E-04
856	ALL	495546	3761876	NonCancer	0.00E+00	0.00E+00	2.07E-04	0.00E+00	0.00E+00	2.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04	0.00E+00	0.00E+00	2.07E-04
857	ALL	495566	3761876	NonCancer	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	2.04E-04
858	ALL	495126	3761896	NonCancer	0.00E+00	0.00E+00	2.97E-04	0.00E+00	0.00E+00	2.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04	0.00E+00	0.00E+00	2.97E-04
859	ALL	495146	3761896	NonCancer	0.00E+00	0.00E+00	2.91E-04	0.00E+00	0.00E+00	2.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-04	0.00E+00	0.00E+00	2.91E-04
860	ALL	495166	3761896	NonCancer	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	2.81E-04
861	ALL	495186	3761896	NonCancer	0.00E+00	0.00E+00	2.79E-04	0.00E+00	0.00E+00	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-04	0.00E+00	0.00E+00	2.79E-04
862	ALL	495206	3761896	NonCancer	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	2.75E-04
863	ALL	495226	3761896	NonCancer	0.00E+00	0.00E+00	2.67E-04	0.00E+00	0.00E+00	2.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-04	0.00E+00	0.00E+00	2.67E-04
864	ALL	495386	3761896	NonCancer	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	2.34E-04
865	ALL	495406	3761896	NonCancer	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	2.28E-04
866	ALL	495426	3761896	NonCancer	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	2.22E-04
867	ALL	495446	3761896	NonCancer	0.00E+00	0.00E+00	2.19E-04	0.00E+00	0.00E+00	2.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04	0.00E+00	0.00E+00	2.19E-04
868	ALL	495466	3761896	NonCancer	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	2.17E-04
869	ALL	495486	3761896	NonCancer	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	2.15E-04
870	ALL	495506	3761896	NonCancer	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	2.13E-04
871	ALL	495526	3761896	NonCancer	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	2.11E-04
872	ALL	495546	3761896	NonCancer	0.00E+00	0.00E+00	2.08E-04	0.00E+00	0.00E+00	2.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04	0.00E+00	0.00E+00	2.08E-04
873	ALL	495566	3761896	NonCancer	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	2.05E-04
874	ALL	495586	3761896	NonCancer	0.00E+00	0.00E+00	2.00E-04	0.00E+00	0.00E+00	2.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04	0.00E+00	0.00E+00	2.00E-04
875	ALL	495126	3761916	NonCancer	0.00E+00	0.00E+00	2.80E-04	0.00E+00	0.00E+00	2.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-04	0.00E+00	0.00E+00	2.80E-04
876	ALL	495146	3761916	NonCancer	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	2.84E-04
877	ALL	495166	3761916	NonCancer	0.00E+00	0.00E+00	2.83E-04	0.00E+00	0.00E+00	2.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-04	0.00E+00	0.00E+00	2.83E-04
878	ALL	495186	3761916	NonCancer	0.00E+00	0.00E+00	2.77E-04	0.00E+00	0.00E+00	2.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-04	0.00E+00	0.00E+00	2.77E-04
879	ALL	495206	3761916	NonCancer	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	2.69E-04
880	ALL	495226	3761916	NonCancer	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	2.65E-04
881	ALL	495386	3761916	NonCancer	0.00E+00	0.00E+00	2.32E-04	0.00E+00	0.00E+00	2.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04	0.00E+00	0.00E+00	2.32E-04
882	ALL	495406	3761916	NonCancer	0.00E+00	0.00E+00	2.27E-04	0.00E+00	0.00E+00	2.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-04	0.00E+00	0.00E+00	2.27E-04
883	ALL	495426	3761916	NonCancer	0.00E+00	0.00E+00	2.23E-04	0.00E+00	0.00E+00	2.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04	0.00E+00	0.00E+00	2.23E-04

884	ALL	495446	3761916	NonCancer	0.00E+00	0.00E+00	2.20E-04	0.00E+00	0.00E+00	2.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04	0.00E+00	0.00E+00	2.20E-04
885	ALL	495466	3761916	NonCancer	0.00E+00	0.00E+00	2.16E-04	0.00E+00	0.00E+00	2.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04	0.00E+00	0.00E+00	2.16E-04
886	ALL	495486	3761916	NonCancer	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	2.11E-04
887	ALL	495506	3761916	NonCancer	0.00E+00	0.00E+00	2.07E-04	0.00E+00	0.00E+00	2.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04	0.00E+00	0.00E+00	2.07E-04
888	ALL	495526	3761916	NonCancer	0.00E+00	0.00E+00	2.06E-04	0.00E+00	0.00E+00	2.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-04	0.00E+00	0.00E+00	2.06E-04
889	ALL	495546	3761916	NonCancer	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	2.05E-04
890	ALL	495566	3761916	NonCancer	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	2.05E-04
891	ALL	495586	3761916	NonCancer	0.00E+00	0.00E+00	2.03E-04	0.00E+00	0.00E+00	2.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04	0.00E+00	0.00E+00	2.03E-04
892	ALL	495126	3761936	NonCancer	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	2.69E-04
893	ALL	495146	3761936	NonCancer	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	2.66E-04
894	ALL	495166	3761936	NonCancer	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	2.66E-04
895	ALL	495186	3761936	NonCancer	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	2.69E-04
896	ALL	495206	3761936	NonCancer	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	2.70E-04
897	ALL	495226	3761936	NonCancer	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	2.66E-04
898	ALL	495146	3761956	NonCancer	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	2.69E-04
899	ALL	495166	3761956	NonCancer	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	2.58E-04
900	ALL	495186	3761956	NonCancer	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	2.53E-04
901	ALL	495206	3761956	NonCancer	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	2.54E-04
902	ALL	495226	3761956	NonCancer	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	2.56E-04
903	ALL	495146	3761976	NonCancer	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	2.70E-04
904	ALL	495166	3761976	NonCancer	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	2.65E-04
905	ALL	495186	3761976	NonCancer	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	2.57E-04
906	ALL	495206	3761976	NonCancer	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	2.46E-04
907	ALL	495226	3761976	NonCancer	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	2.41E-04
908	ALL	495146	3761996	NonCancer	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	2.66E-04
909	ALL	495166	3761996	NonCancer	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	2.63E-04
910	ALL	495186	3761996	NonCancer	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	2.58E-04
911	ALL	495206	3761996	NonCancer	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	2.54E-04
912	ALL	495226	3761996	NonCancer	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	2.47E-04
913	ALL	495146	3762016	NonCancer	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	2.54E-04
914	ALL	495166	3762016	NonCancer	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	2.57E-04
915	ALL	495186	3762016	NonCancer	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	2.55E-04
916	ALL	495206	3762016	NonCancer	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	2.53E-04
917	ALL	495226	3762016	NonCancer	0.00E+00	0.00E+00	2.48E-04	0.00E+00	0.00E+00	2.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04	0.00E+00	0.00E+00	2.48E-04
918	ALL	495146	3762036	NonCancer	0.00E+00	0.00E+00	2.31E-04	0.00E+00	0.00E+00	2.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-04	0.00E+00	0.00E+00	2.31E-04
919	ALL	495166	3762036	NonCancer	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	2.39E-04
920	ALL	495186	3762036	NonCancer	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	2.45E-04
921	ALL	495206	3762036	NonCancer	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	2.47E-04
922	ALL	495226	3762036	NonCancer	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	2.47E-04
923	ALL	495146	3762056	NonCancer	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	2.36E-04
924	ALL	495166	3762056	NonCancer	0.00E+00	0.00E+00	2.26E-04	0.00E+00	0.00E+00	2.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04	0.00E+00	0.00E+00	2.26E-04
925	ALL	495186	3762056	NonCancer	0.00E+00	0.00E+00	2.24E-04	0.00E+00	0.00E+00	2.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-04	0.00E+00	0.00E+00	2.24E-04
926	ALL	495206	3762056	NonCancer	0.00E+00	0.00E+00	2.33E-04	0.00E+00	0.00E+00	2.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04	0.00E+00	0.00E+00	2.33E-04
927	ALL	495226	3762056	NonCancer	0.00E+00	0.00E+00	2.38E-04	0.00E+00	0.00E+00	2.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04	0.00E+00	0.00E+00	2.38E-04
928	ALL	494031.1	3761757	NonCancer	0.00E+00	0.00E+00	4.31E-04	0.00E+00	0.00E+00	4.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-04	0.00E+00	0.00E+00	4.31E-04
929	ALL	494022.5	3761743	NonCancer	0.00E+00	0.00E+00	4.51E-04	0.00E+00	0.00E+00	4.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-04	0.00E+00	0.00E+00	4.51E-04
930	ALL	494020.5	3761734	NonCancer	0.00E+00	0.00E+00	4.59E-04	0.00E+00	0.00E+00	4.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-04	0.00E+00	0.00E+00	4.59E-04
931	ALL	494013.4	3761724	NonCancer	0.00E+00	0.00E+00	4.51E-04	0.00E+00	0.00E+00	4.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-04	0.00E+00	0.00E+00	4.51E-04
932	ALL	494002.7	3761712	NonCancer	0.00E+00	0.00E+00	4.25E-04	0.00E+00	0.00E+00	4.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-04	0.00E+00	0.00E+00	4.25E-04
933	ALL	493991.6	3761703	NonCancer	0.00E+00	0.00E+00	3.90E-04	0.00E+00	0.00E+00	3.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-04	0.00E+00	0.00E+00	3.90E-04
934	ALL	493980.4	3761693	NonCancer	0.00E+00	0.00E+00	3.48E-04	0.00E+00	0.00E+00	3.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-04	0.00E+00	0.00E+00	3.48E-04
935	ALL	493969.8	3761686	NonCancer	0.00E+00	0.00E+00	3.14E-04	0.00E+00	0.00E+00	3.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-04	0.00E+00	0.00E+00	3.14E-04

936	ALL	493957.6	3761681	NonCancer	0.00E+00	0.00E+00	2.80E-04	0.00E+00	0.00E+00	2.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-04	0.00E+00	0.00E+00	2.80E-04
937	ALL	493943.9	3761674	NonCancer	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	2.40E-04
938	ALL	493926.2	3761673	NonCancer	0.00E+00	0.00E+00	2.24E-04	0.00E+00	0.00E+00	2.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-04	0.00E+00	0.00E+00	2.24E-04
939	ALL	493913.5	3761671	NonCancer	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	2.13E-04
940	ALL	493899.8	3761670	NonCancer	0.00E+00	0.00E+00	2.06E-04	0.00E+00	0.00E+00	2.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-04	0.00E+00	0.00E+00	2.06E-04
941	ALL	493832.4	3761639	NonCancer	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	1.84E-04
942	ALL	493822.8	3761647	NonCancer	0.00E+00	0.00E+00	1.78E-04	0.00E+00	0.00E+00	1.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	0.00E+00	1.78E-04
943	ALL	493811.1	3761658	NonCancer	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	1.69E-04
944	ALL	493809.6	3761669	NonCancer	0.00E+00	0.00E+00	1.61E-04	0.00E+00	0.00E+00	1.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04	0.00E+00	0.00E+00	1.61E-04
945	ALL	493817.7	3761682	NonCancer	0.00E+00	0.00E+00	1.56E-04	0.00E+00	0.00E+00	1.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04	0.00E+00	0.00E+00	1.56E-04
946	ALL	493833.4	3761690	NonCancer	0.00E+00	0.00E+00	1.61E-04	0.00E+00	0.00E+00	1.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04	0.00E+00	0.00E+00	1.61E-04
947	ALL	493853.7	3761695	NonCancer	0.00E+00	0.00E+00	1.74E-04	0.00E+00	0.00E+00	1.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04	0.00E+00	0.00E+00	1.74E-04
948	ALL	493871.5	3761693	NonCancer	0.00E+00	0.00E+00	1.86E-04	0.00E+00	0.00E+00	1.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04	0.00E+00	0.00E+00	1.86E-04
949	ALL	493888.2	3761693	NonCancer	0.00E+00	0.00E+00	2.03E-04	0.00E+00	0.00E+00	2.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04	0.00E+00	0.00E+00	2.03E-04
950	ALL	493905.9	3761694	NonCancer	0.00E+00	0.00E+00	2.24E-04	0.00E+00	0.00E+00	2.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-04	0.00E+00	0.00E+00	2.24E-04
951	ALL	493920.6	3761695	NonCancer	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	2.47E-04
952	ALL	493939.4	3761698	NonCancer	0.00E+00	0.00E+00	2.82E-04	0.00E+00	0.00E+00	2.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-04	0.00E+00	0.00E+00	2.82E-04
953	ALL	493959.6	3761707	NonCancer	0.00E+00	0.00E+00	3.32E-04	0.00E+00	0.00E+00	3.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-04	0.00E+00	0.00E+00	3.32E-04
954	ALL	493975.4	3761717	NonCancer	0.00E+00	0.00E+00	3.75E-04	0.00E+00	0.00E+00	3.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-04	0.00E+00	0.00E+00	3.75E-04
955	ALL	493983.5	3761726	NonCancer	0.00E+00	0.00E+00	3.96E-04	0.00E+00	0.00E+00	3.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-04	0.00E+00	0.00E+00	3.96E-04
956	ALL	493991.1	3761738	NonCancer	0.00E+00	0.00E+00	4.09E-04	0.00E+00	0.00E+00	4.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-04	0.00E+00	0.00E+00	4.09E-04
957	ALL	494001.2	3761754	NonCancer	0.00E+00	0.00E+00	4.08E-04	0.00E+00	0.00E+00	4.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-04	0.00E+00	0.00E+00	4.08E-04
958	ALL	493984.5	3761753	NonCancer	0.00E+00	0.00E+00	3.90E-04	0.00E+00	0.00E+00	3.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-04	0.00E+00	0.00E+00	3.90E-04
959	ALL	493980.4	3761747	NonCancer	0.00E+00	0.00E+00	3.89E-04	0.00E+00	0.00E+00	3.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-04	0.00E+00	0.00E+00	3.89E-04
960	ALL	493970.8	3761735	NonCancer	0.00E+00	0.00E+00	3.77E-04	0.00E+00	0.00E+00	3.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-04	0.00E+00	0.00E+00	3.77E-04
961	ALL	493953.6	3761728	NonCancer	0.00E+00	0.00E+00	3.46E-04	0.00E+00	0.00E+00	3.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-04	0.00E+00	0.00E+00	3.46E-04
962	ALL	493937.3	3761717	NonCancer	0.00E+00	0.00E+00	3.09E-04	0.00E+00	0.00E+00	3.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-04	0.00E+00	0.00E+00	3.09E-04
963	ALL	493921.1	3761715	NonCancer	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	2.81E-04
964	ALL	493906.9	3761711	NonCancer	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	2.55E-04
965	ALL	493887.2	3761711	NonCancer	0.00E+00	0.00E+00	2.29E-04	0.00E+00	0.00E+00	2.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04	0.00E+00	0.00E+00	2.29E-04
966	ALL	493870.4	3761711	NonCancer	0.00E+00	0.00E+00	2.09E-04	0.00E+00	0.00E+00	2.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04	0.00E+00	0.00E+00	2.09E-04
967	ALL	493857.8	3761711	NonCancer	0.00E+00	0.00E+00	1.96E-04	0.00E+00	0.00E+00	1.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04	0.00E+00	0.00E+00	1.96E-04
968	ALL	493843.1	3761710	NonCancer	0.00E+00	0.00E+00	1.82E-04	0.00E+00	0.00E+00	1.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04	0.00E+00	0.00E+00	1.82E-04
969	ALL	493829.4	3761710	NonCancer	0.00E+00	0.00E+00	1.71E-04	0.00E+00	0.00E+00	1.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04	0.00E+00	0.00E+00	1.71E-04
970	ALL	493806.6	3761701	NonCancer	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	1.50E-04
971	ALL	493799.5	3761684	NonCancer	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	1.49E-04
972	ALL	493797.5	3761663	NonCancer	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	1.62E-04
973	ALL	493779.7	3761668	NonCancer	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	1.53E-04
974	ALL	493775.1	3761688	NonCancer	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	1.41E-04
975	ALL	493782.8	3761700	NonCancer	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	1.41E-04
976	ALL	493793.4	3761717	NonCancer	0.00E+00	0.00E+00	1.52E-04	0.00E+00	0.00E+00	1.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	0.00E+00	0.00E+00	1.52E-04
977	ALL	493809.1	3761731	NonCancer	0.00E+00	0.00E+00	1.75E-04	0.00E+00	0.00E+00	1.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04	0.00E+00	0.00E+00	1.75E-04
978	ALL	493821.3	3761732	NonCancer	0.00E+00	0.00E+00	1.85E-04	0.00E+00	0.00E+00	1.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04	0.00E+00	0.00E+00	1.85E-04
979	ALL	493843.6	3761731	NonCancer	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	2.04E-04
980	ALL	493875	3761734	NonCancer	0.00E+00	0.00E+00	2.42E-04	0.00E+00	0.00E+00	2.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-04	0.00E+00	0.00E+00	2.42E-04
981	ALL	493883.6	3761733	NonCancer	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	2.52E-04
982	ALL	493904.9	3761735	NonCancer	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	2.81E-04
983	ALL	493928.7	3761736	NonCancer	0.00E+00	0.00E+00	3.14E-04	0.00E+00	0.00E+00	3.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-04	0.00E+00	0.00E+00	3.14E-04
984	ALL	493941.4	3761746	NonCancer	0.00E+00	0.00E+00	3.36E-04	0.00E+00	0.00E+00	3.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-04	0.00E+00	0.00E+00	3.36E-04
985	ALL	493954.1	3761758	NonCancer	0.00E+00	0.00E+00	3.50E-04	0.00E+00	0.00E+00	3.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-04	0.00E+00	0.00E+00	3.50E-04
986	ALL	493931.8	3761757	NonCancer	0.00E+00	0.00E+00	3.25E-04	0.00E+00	0.00E+00	3.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-04	0.00E+00	0.00E+00	3.25E-04
987	ALL	493915.5	3761755	NonCancer	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	3.06E-04

988	ALL	493903.4	3761754	NonCancer	0.00E+00	0.00E+00	2.92E-04	0.00E+00	0.00E+00	2.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-04	0.00E+00	0.00E+00	2.92E-04
989	ALL	493888.7	3761754	NonCancer	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	2.75E-04
990	ALL	493873	3761754	NonCancer	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	2.57E-04
991	ALL	493851.7	3761754	NonCancer	0.00E+00	0.00E+00	2.35E-04	0.00E+00	0.00E+00	2.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-04	0.00E+00	0.00E+00	2.35E-04
992	ALL	493835.5	3761752	NonCancer	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	2.17E-04
993	ALL	493818.7	3761751	NonCancer	0.00E+00	0.00E+00	2.01E-04	0.00E+00	0.00E+00	2.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04	0.00E+00	0.00E+00	2.01E-04
994	ALL	493742.2	3761651	NonCancer	0.00E+00	0.00E+00	1.46E-04	0.00E+00	0.00E+00	1.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04	0.00E+00	0.00E+00	1.46E-04
995	ALL	493742.2	3761665	NonCancer	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	1.42E-04
996	ALL	493742.2	3761680	NonCancer	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	1.34E-04
997	ALL	493746.3	3761695	NonCancer	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	1.29E-04
998	ALL	493750.3	3761709	NonCancer	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	1.29E-04
999	ALL	493754.9	3761721	NonCancer	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	1.31E-04
1000	ALL	493757.9	3761733	NonCancer	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	1.43E-04
1001	ALL	493772.1	3761750	NonCancer	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	1.63E-04
1002	ALL	493760.4	3761749	NonCancer	0.00E+00	0.00E+00	1.56E-04	0.00E+00	0.00E+00	1.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04	0.00E+00	0.00E+00	1.56E-04
1003	ALL	493749.3	3761749	NonCancer	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	1.49E-04
1004	ALL	493730.5	3761749	NonCancer	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	1.39E-04
1005	ALL	493705.7	3761747	NonCancer	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	1.25E-04
1006	ALL	493712.8	3761771	NonCancer	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	1.39E-04
1007	ALL	493739.7	3761768	NonCancer	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	1.53E-04
1008	ALL	493757.4	3761769	NonCancer	0.00E+00	0.00E+00	1.66E-04	0.00E+00	0.00E+00	1.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04	0.00E+00	0.00E+00	1.66E-04
1009	ALL	493780.2	3761771	NonCancer	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	1.84E-04
1010	ALL	493801.5	3761770	NonCancer	0.00E+00	0.00E+00	2.00E-04	0.00E+00	0.00E+00	2.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04	0.00E+00	0.00E+00	2.00E-04
1011	ALL	493830.9	3761773	NonCancer	0.00E+00	0.00E+00	2.27E-04	0.00E+00	0.00E+00	2.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-04	0.00E+00	0.00E+00	2.27E-04
1012	ALL	493850.7	3761774	NonCancer	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	2.44E-04
1013	ALL	493872.5	3761774	NonCancer	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	2.64E-04
1014	ALL	493893.8	3761777	NonCancer	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	2.84E-04
1015	ALL	493908.5	3761776	NonCancer	0.00E+00	0.00E+00	2.97E-04	0.00E+00	0.00E+00	2.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04	0.00E+00	0.00E+00	2.97E-04
1016	ALL	493926.2	3761780	NonCancer	0.00E+00	0.00E+00	3.10E-04	0.00E+00	0.00E+00	3.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-04	0.00E+00	0.00E+00	3.10E-04
1017	ALL	493937.8	3761779	NonCancer	0.00E+00	0.00E+00	3.20E-04	0.00E+00	0.00E+00	3.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04	0.00E+00	0.00E+00	3.20E-04
1018	ALL	493952.5	3761780	NonCancer	0.00E+00	0.00E+00	3.30E-04	0.00E+00	0.00E+00	3.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-04	0.00E+00	0.00E+00	3.30E-04
1019	ALL	493967.8	3761780	NonCancer	0.00E+00	0.00E+00	3.41E-04	0.00E+00	0.00E+00	3.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-04	0.00E+00	0.00E+00	3.41E-04
1020	ALL	493975.4	3761784	NonCancer	0.00E+00	0.00E+00	3.39E-04	0.00E+00	0.00E+00	3.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-04	0.00E+00	0.00E+00	3.39E-04
1021	ALL	493989.5	3761780	NonCancer	0.00E+00	0.00E+00	3.53E-04	0.00E+00	0.00E+00	3.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-04	0.00E+00	0.00E+00	3.53E-04
1022	ALL	494000.2	3761782	NonCancer	0.00E+00	0.00E+00	3.54E-04	0.00E+00	0.00E+00	3.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-04	0.00E+00	0.00E+00	3.54E-04
1023	ALL	494014.9	3761785	NonCancer	0.00E+00	0.00E+00	3.49E-04	0.00E+00	0.00E+00	3.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-04	0.00E+00	0.00E+00	3.49E-04
1024	ALL	494027.1	3761786	NonCancer	0.00E+00	0.00E+00	3.49E-04	0.00E+00	0.00E+00	3.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-04	0.00E+00	0.00E+00	3.49E-04
1025	ALL	494049.4	3761786	NonCancer	0.00E+00	0.00E+00	3.45E-04	0.00E+00	0.00E+00	3.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-04	0.00E+00	0.00E+00	3.45E-04
1026	ALL	494066.1	3761786	NonCancer	0.00E+00	0.00E+00	3.39E-04	0.00E+00	0.00E+00	3.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-04	0.00E+00	0.00E+00	3.39E-04
1027	ALL	494171.4	3761821	NonCancer	0.00E+00	0.00E+00	5.93E-04	0.00E+00	0.00E+00	5.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-04	0.00E+00	0.00E+00	5.93E-04
1028	ALL	494176.5	3761841	NonCancer	0.00E+00	0.00E+00	6.19E-04	0.00E+00	0.00E+00	6.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-04	0.00E+00	0.00E+00	6.19E-04
1029	ALL	494171.4	3761886	NonCancer	0.00E+00	0.00E+00	4.93E-04	0.00E+00	0.00E+00	4.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-04	0.00E+00	0.00E+00	4.93E-04
1030	ALL	494831.5	3761815	NonCancer	0.00E+00	0.00E+00	4.39E-04	0.00E+00	0.00E+00	4.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-04	0.00E+00	0.00E+00	4.39E-04
1031	ALL	494846.3	3761570	NonCancer	0.00E+00	0.00E+00	5.07E-04	0.00E+00	0.00E+00	5.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E-04	0.00E+00	0.00E+00	5.07E-04
1032	ALL	494859.8	3761515	NonCancer	0.00E+00	0.00E+00	5.39E-04	0.00E+00	0.00E+00	5.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-04	0.00E+00	0.00E+00	5.39E-04
1033	ALL	494839.6	3761452	NonCancer	0.00E+00	0.00E+00	5.14E-04	0.00E+00	0.00E+00	5.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-04	0.00E+00	0.00E+00	5.14E-04
1034	ALL	494863.6	3761459	NonCancer	0.00E+00	0.00E+00	4.95E-04	0.00E+00	0.00E+00	4.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-04	0.00E+00	0.00E+00	4.95E-04
1035	ALL	494888	3761461	NonCancer	0.00E+00	0.00E+00	4.58E-04	0.00E+00	0.00E+00	4.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-04	0.00E+00	0.00E+00	4.58E-04
1036	ALL	494935.8	3761473	NonCancer	0.00E+00	0.00E+00	4.20E-04	0.00E+00	0.00E+00	4.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-04	0.00E+00	0.00E+00	4.20E-04
1037	ALL	494961.9	3761422	NonCancer	0.00E+00	0.00E+00	4.13E-04	0.00E+00	0.00E+00	4.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-04	0.00E+00	0.00E+00	4.13E-04
1038	ALL	494996.5	3761368	NonCancer	0.00E+00	0.00E+00	3.47E-04	0.00E+00	0.00E+00	3.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-04	0.00E+00	0.00E+00	3.47E-04
1039	ALL	494991.5	3761327	NonCancer	0.00E+00	0.00E+00	3.24E-04	0.00E+00	0.00E+00	3.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-04	0.00E+00	0.00E+00	3.24E-04

1040	ALL	495039.8	3761351	NonCancer	0.00E+00	0.00E+00	3.40E-04	0.00E+00	0.00E+00	3.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-04	0.00E+00	0.00E+00	3.40E-04
1041	ALL	495133.9	3761336	NonCancer	0.00E+00	0.00E+00	2.01E-04	0.00E+00	0.00E+00	2.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04	0.00E+00	0.00E+00	2.01E-04
1042	ALL	495229.3	3761326	NonCancer	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	1.79E-04
1043	ALL	495414.8	3761335	NonCancer	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	2.63E-04
1044	ALL	495539.8	3761406	NonCancer	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	2.34E-04
1045	ALL	495545.2	3761698	NonCancer	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	2.13E-04
1046	ALL	495576.1	3761784	NonCancer	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	2.11E-04
1047	ALL	495589.5	3761934	NonCancer	0.00E+00	0.00E+00	1.96E-04	0.00E+00	0.00E+00	1.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04	0.00E+00	0.00E+00	1.96E-04
1048	ALL	495387.9	3761934	NonCancer	0.00E+00	0.00E+00	2.31E-04	0.00E+00	0.00E+00	2.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-04	0.00E+00	0.00E+00	2.31E-04
1049	ALL	495359.7	3761828	NonCancer	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	2.44E-04
1050	ALL	495237.4	3761820	NonCancer	0.00E+00	0.00E+00	2.76E-04	0.00E+00	0.00E+00	2.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04	0.00E+00	0.00E+00	2.76E-04
1051	ALL	495237.4	3762073	NonCancer	0.00E+00	0.00E+00	2.27E-04	0.00E+00	0.00E+00	2.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-04	0.00E+00	0.00E+00	2.27E-04
1052	ALL	495127.2	3762069	NonCancer	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	2.39E-04
1053	ALL	495124.5	3761819	NonCancer	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	3.06E-04

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE	RESP	SKIN	EYE	BONE/TEET	ENDO	BLOOD	ODOR	GENERAL	MAXHI
1	ALL		495006	3761336	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.62E-08	2.62E-08	2.62E-08	1.74E-04	0.00E+00	0.00E+00	0.00E+00	2.62E-08	1.69E-04	0.00E+00	0.00E+00	1.74E-04
2	ALL		495146	3761336	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.80E-08	1.80E-08	1.80E-08	1.09E-04	0.00E+00	0.00E+00	0.00E+00	1.80E-08	1.15E-04	0.00E+00	0.00E+00	1.15E-04
3	ALL		495166	3761336	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.78E-08	1.78E-08	1.78E-08	1.05E-04	0.00E+00	0.00E+00	0.00E+00	1.78E-08	1.17E-04	0.00E+00	0.00E+00	1.17E-04
4	ALL		495186	3761336	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.76E-08	1.76E-08	1.76E-08	1.01E-04	0.00E+00	0.00E+00	0.00E+00	1.76E-08	1.15E-04	0.00E+00	0.00E+00	1.15E-04
5	ALL		495206	3761336	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.72E-08	1.72E-08	1.72E-08	9.67E-05	0.00E+00	0.00E+00	0.00E+00	1.72E-08	1.12E-04	0.00E+00	0.00E+00	1.12E-04
6	ALL		495226	3761336	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.67E-08	1.67E-08	1.67E-08	9.25E-05	0.00E+00	0.00E+00	0.00E+00	1.67E-08	1.09E-04	0.00E+00	0.00E+00	1.09E-04
7	ALL		495246	3761336	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.62E-08	1.62E-08	1.62E-08	8.86E-05	0.00E+00	0.00E+00	0.00E+00	1.62E-08	1.06E-04	0.00E+00	0.00E+00	1.06E-04
8	ALL		495266	3761336	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.59E-08	1.59E-08	1.59E-08	8.55E-05	0.00E+00	0.00E+00	0.00E+00	1.59E-08	1.03E-04	0.00E+00	0.00E+00	1.03E-04
9	ALL		495286	3761336	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.64E-08	1.64E-08	1.64E-08	8.39E-05	0.00E+00	0.00E+00	0.00E+00	1.64E-08	1.05E-04	0.00E+00	0.00E+00	1.05E-04
10	ALL		495306	3761336	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.60E-08	1.60E-08	1.60E-08	7.96E-05	0.00E+00	0.00E+00	0.00E+00	1.60E-08	1.03E-04	0.00E+00	0.00E+00	1.03E-04
11	ALL		495326	3761336	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.55E-08	1.55E-08	1.55E-08	7.54E-05	0.00E+00	0.00E+00	0.00E+00	1.55E-08	9.89E-05	0.00E+00	0.00E+00	9.89E-05
12	ALL		495346	3761336	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.50E-08	1.50E-08	1.50E-08	7.24E-05	0.00E+00	0.00E+00	0.00E+00	1.50E-08	9.59E-05	0.00E+00	0.00E+00	9.59E-05
13	ALL		495366	3761336	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.45E-08	1.45E-08	1.45E-08	6.87E-05	0.00E+00	0.00E+00	0.00E+00	1.45E-08	9.23E-05	0.00E+00	0.00E+00	9.23E-05
14	ALL		495386	3761336	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.40E-08	1.40E-08	1.40E-08	6.58E-05	0.00E+00	0.00E+00	0.00E+00	1.40E-08	8.92E-05	0.00E+00	0.00E+00	8.92E-05
15	ALL		495406	3761336	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.36E-08	1.36E-08	1.36E-08	6.34E-05	0.00E+00	0.00E+00	0.00E+00	1.36E-08	8.66E-05	0.00E+00	0.00E+00	8.66E-05
16	ALL		495006	3761356	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.76E-08	2.76E-08	2.76E-08	1.74E-04	0.00E+00	0.00E+00	0.00E+00	2.76E-08	1.78E-04	0.00E+00	0.00E+00	1.78E-04
17	ALL		495026	3761356	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.66E-08	2.66E-08	2.66E-08	1.63E-04	0.00E+00	0.00E+00	0.00E+00	2.66E-08	1.71E-04	0.00E+00	0.00E+00	1.71E-04
18	ALL		495046	3761356	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.56E-08	2.56E-08	2.56E-08	1.53E-04	0.00E+00	0.00E+00	0.00E+00	2.56E-08	1.65E-04	0.00E+00	0.00E+00	1.65E-04
19	ALL		495066	3761356	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.44E-08	2.44E-08	2.44E-08	1.43E-04	0.00E+00	0.00E+00	0.00E+00	2.44E-08	1.57E-04	0.00E+00	0.00E+00	1.57E-04
20	ALL		495086	3761356	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.23E-08	2.23E-08	2.23E-08	1.33E-04	0.00E+00	0.00E+00	0.00E+00	2.23E-08	1.45E-04	0.00E+00	0.00E+00	1.45E-04
21	ALL		495106	3761356	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.06E-08	2.06E-08	2.06E-08	1.23E-04	0.00E+00	0.00E+00	0.00E+00	2.06E-08	1.36E-04	0.00E+00	0.00E+00	1.36E-04
22	ALL		495126	3761356	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.99E-08	1.99E-08	1.99E-08	1.16E-04	0.00E+00	0.00E+00	0.00E+00	1.99E-08	1.31E-04	0.00E+00	0.00E+00	1.31E-04
23	ALL		495146	3761356	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.95E-08	1.95E-08	1.95E-08	1.11E-04	0.00E+00	0.00E+00	0.00E+00	1.95E-08	1.28E-04	0.00E+00	0.00E+00	1.28E-04
24	ALL		495166	3761356	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.91E-08	1.91E-08	1.91E-08	1.07E-04	0.00E+00	0.00E+00	0.00E+00	1.91E-08	1.25E-04	0.00E+00	0.00E+00	1.25E-04
25	ALL		495186	3761356	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.86E-08	1.86E-08	1.86E-08	1.02E-04	0.00E+00	0.00E+00	0.00E+00	1.86E-08	1.22E-04	0.00E+00	0.00E+00	1.22E-04
26	ALL		495206	3761356	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.81E-08	1.81E-08	1.81E-08	9.77E-05	0.00E+00	0.00E+00	0.00E+00	1.81E-08	1.18E-04	0.00E+00	0.00E+00	1.18E-04
27	ALL		495226	3761356	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.77E-08	1.77E-08	1.77E-08	9.36E-05	0.00E+00	0.00E+00	0.00E+00	1.77E-08	1.15E-04	0.00E+00	0.00E+00	1.15E-04
28	ALL		495246	3761356	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.73E-08	1.73E-08	1.73E-08	8.98E-05	0.00E+00	0.00E+00	0.00E+00	1.73E-08	1.12E-04	0.00E+00	0.00E+00	1.12E-04
29	ALL		495266	3761356	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.70E-08	1.70E-08	1.70E-08	8.63E-05	0.00E+00	0.00E+00	0.00E+00	1.70E-08	1.10E-04	0.00E+00	0.00E+00	1.10E-04
30	ALL		495286	3761356	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.70E-08	1.70E-08	1.70E-08	8.30E-05	0.00E+00	0.00E+00	0.00E+00	1.70E-08	1.09E-04	0.00E+00	0.00E+00	1.09E-04
31	ALL		495306	3761356	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.64E-08	1.64E-08	1.64E-08	7.85E-05	0.00E+00	0.00E+00	0.00E+00	1.64E-08	1.05E-04	0.00E+00	0.00E+00	1.05E-04
32	ALL		495326	3761356	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.59E-08	1.59E-08	1.59E-08	7.48E-05	0.00E+00	0.00E+00	0.00E+00	1.59E-08	1.01E-04	0.00E+00	0.00E+00	1.01E-04
33	ALL		495346	3761356	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.54E-08	1.54E-08	1.54E-08	7.18E-05	0.00E+00	0.00E+00	0.00E+00	1.54E-08	9.81E-05	0.00E+00	0.00E+00	9.81E-05
34	ALL		495366	3761356	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.48E-08	1.48E-08	1.48E-08	6.85E-05	0.00E+00	0.00E+00	0.00E+00	1.48E-08	9.46E-05	0.00E+00	0.00E+00	9.46E-05
35	ALL		495386	3761356	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.43E-08	1.43E-08	1.43E-08	6.55E-05	0.00E+00	0.00E+00	0.00E+00	1.43E-08	9.13E-05	0.00E+00	0.00E+00	9.13E-05
36	ALL		495406	3761356	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.39E-08	1.39E-08	1.39E-08	6.29E-05	0.00E+00	0.00E+00	0.00E+00	1.39E-08	8.84E-05	0.00E+00	0.00E+00	8.84E-05
37	ALL		495426	3761356	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.34E-08	1.34E-08	1.34E-08	6.04E-05	0.00E+00	0.00E+00	0.00E+00	1.34E-08	8.56E-05	0.00E+00	0.00E+00	8.56E-05
38	ALL		495446	3761356	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.30E-08	1.30E-08	1.30E-08	5.80E-05	0.00E+00	0.00E+00	0.00E+00	1.30E-08	8.27E-05	0.00E+00	0.00E+00	8.27E-05
39	ALL		495006	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.88E-08	2.88E-08	2.88E-08	1.72E-04	0.00E+00	0.00E+00	0.00E+00	2.88E-08	1.86E-04	0.00E+00	0.00E+00	1.86E-04
40	ALL		495026	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.78E-08	2.78E-08	2.78E-08	1.61E-04	0.00E+00	0.00E+00	0.00E+00	2.78E-08	1.79E-04	0.00E+00	0.00E+00	1.79E-04
41	ALL		495046	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.68E-08	2.68E-08	2.68E-08	1.51E-04	0.00E+00	0.00E+00	0.00E+00	2.68E-08	1.72E-04	0.00E+00	0.00E+00	1.72E-04
42	ALL		495066	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.57E-08	2.57E-08	2.57E-08	1.42E-04	0.00E+00	0.00E+00	0.00E+00	2.57E-08	1.65E-04	0.00E+00	0.00E+00	1.65E-04
43	ALL		495086	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.43E-08	2.43E-08	2.43E-08	1.34E-04	0.00E+00	0.00E+00	0.00E+00	2.43E-08	1.57E-04	0.00E+00	0.00E+00	1.57E-04
44	ALL		495106	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.28E-08	2.28E-08	2.28E-08	1.26E-04	0.00E+00	0.00E+00	0.00E+00	2.28E-08	1.48E-04	0.00E+00	0.00E+00	1.48E-04
45	ALL		495126	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.18E-08	2.18E-08	2.18E-08	1.19E-04	0.00E+00	0.00E+00	0.00E+00	2.18E-08	1.42E-04	0.00E+00	0.00E+00	1.42E-04
46	ALL		495146	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.11E-08	2.11E-08	2.11E-08	1.13E-04	0.00E+00	0.00E+00	0.00E+00	2.11E-08	1.37E-04	0.00E+00	0.00E+00	1.37E-04
47	ALL		495166	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.04E-08	2.04E-08	2.04E-08	1.07E-04	0.00E+00	0.00E+00	0.00E+00	2.04E-08	1.32E-04	0.00E+00	0.00E+00	1.32E-04
48	ALL		495186	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.97E-08	1.97E-08	1.97E-08	1.02E-04	0.00E+00	0.00E+00	0.00E+00	1.97E-08	1.28E-04	0.00E+00	0.00E+00	1.28E-04
49	ALL		495206	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.91E-08	1.91E-08	1.91E-08	9.75E-05	0.00E+00	0.00E+00	0.00E+00	1.91E-08	1.24E-04	0.00E+00	0.00E+00	1.24E-04
50	ALL		495226	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.87E-08	1.87E-08	1.87E-08	9.34E-05	0.00E+00	0.00E+00	0.00E+00	1.87E-08	1.21E-04	0.00E+00	0.00E+00	1.21E-04
51	ALL		495246	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.83E-08	1.83E-08	1.83E-08	8.99E-05	0.00E+00	0.00E+00	0.00E+00	1.83E-08	1.18E-04	0.00E+00	0.00E+00	1.18E-04

52	ALL	495266	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.79E-08	1.79E-08	1.79E-08	8.61E-05	0.00E+00	0.00E+00	0.00E+00	1.79E-08	1.15E-04	0.00E+00	0.00E+00	1.15E-04
53	ALL	495286	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.74E-08	1.74E-08	1.74E-08	8.15E-05	0.00E+00	0.00E+00	0.00E+00	1.74E-08	1.11E-04	0.00E+00	0.00E+00	1.11E-04
54	ALL	495306	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.68E-08	1.68E-08	1.68E-08	7.73E-05	0.00E+00	0.00E+00	0.00E+00	1.68E-08	1.07E-04	0.00E+00	0.00E+00	1.07E-04
55	ALL	495326	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.62E-08	1.62E-08	1.62E-08	7.39E-05	0.00E+00	0.00E+00	0.00E+00	1.62E-08	1.04E-04	0.00E+00	0.00E+00	1.04E-04
56	ALL	495346	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.57E-08	1.57E-08	1.57E-08	7.10E-05	0.00E+00	0.00E+00	0.00E+00	1.57E-08	1.00E-04	0.00E+00	0.00E+00	1.00E-04
57	ALL	495366	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.52E-08	1.52E-08	1.52E-08	6.79E-05	0.00E+00	0.00E+00	0.00E+00	1.52E-08	9.68E-05	0.00E+00	0.00E+00	9.68E-05
58	ALL	495386	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.47E-08	1.47E-08	1.47E-08	6.50E-05	0.00E+00	0.00E+00	0.00E+00	1.47E-08	9.35E-05	0.00E+00	0.00E+00	9.35E-05
59	ALL	495406	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.42E-08	1.42E-08	1.42E-08	6.23E-05	0.00E+00	0.00E+00	0.00E+00	1.42E-08	9.03E-05	0.00E+00	0.00E+00	9.03E-05
60	ALL	495426	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.37E-08	1.37E-08	1.37E-08	5.97E-05	0.00E+00	0.00E+00	0.00E+00	1.37E-08	8.71E-05	0.00E+00	0.00E+00	8.71E-05
61	ALL	495446	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.32E-08	1.32E-08	1.32E-08	5.69E-05	0.00E+00	0.00E+00	0.00E+00	1.32E-08	8.38E-05	0.00E+00	0.00E+00	8.38E-05
62	ALL	495466	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.27E-08	1.27E-08	1.27E-08	5.46E-05	0.00E+00	0.00E+00	0.00E+00	1.27E-08	8.09E-05	0.00E+00	0.00E+00	8.09E-05
63	ALL	495486	3761376	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.24E-08	1.24E-08	1.24E-08	5.28E-05	0.00E+00	0.00E+00	0.00E+00	1.24E-08	7.87E-05	0.00E+00	0.00E+00	7.87E-05
64	ALL	494986	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.14E-08	3.14E-08	3.14E-08	1.81E-04	0.00E+00	0.00E+00	0.00E+00	3.14E-08	2.03E-04	0.00E+00	0.00E+00	2.03E-04
65	ALL	495006	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.02E-08	3.02E-08	3.02E-08	1.69E-04	0.00E+00	0.00E+00	0.00E+00	3.02E-08	1.95E-04	0.00E+00	0.00E+00	1.95E-04
66	ALL	495026	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.90E-08	2.90E-08	2.90E-08	1.58E-04	0.00E+00	0.00E+00	0.00E+00	2.90E-08	1.87E-04	0.00E+00	0.00E+00	1.87E-04
67	ALL	495046	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.79E-08	2.79E-08	2.79E-08	1.48E-04	0.00E+00	0.00E+00	0.00E+00	2.79E-08	1.79E-04	0.00E+00	0.00E+00	1.79E-04
68	ALL	495066	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.67E-08	2.67E-08	2.67E-08	1.39E-04	0.00E+00	0.00E+00	0.00E+00	2.67E-08	1.72E-04	0.00E+00	0.00E+00	1.72E-04
69	ALL	495086	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.56E-08	2.56E-08	2.56E-08	1.32E-04	0.00E+00	0.00E+00	0.00E+00	2.56E-08	1.65E-04	0.00E+00	0.00E+00	1.65E-04
70	ALL	495106	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.42E-08	2.42E-08	2.42E-08	1.24E-04	0.00E+00	0.00E+00	0.00E+00	2.42E-08	1.56E-04	0.00E+00	0.00E+00	1.56E-04
71	ALL	495126	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.31E-08	2.31E-08	2.31E-08	1.18E-04	0.00E+00	0.00E+00	0.00E+00	2.31E-08	1.50E-04	0.00E+00	0.00E+00	1.50E-04
72	ALL	495146	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.24E-08	2.24E-08	2.24E-08	1.12E-04	0.00E+00	0.00E+00	0.00E+00	2.24E-08	1.44E-04	0.00E+00	0.00E+00	1.44E-04
73	ALL	495166	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.16E-08	2.16E-08	2.16E-08	1.07E-04	0.00E+00	0.00E+00	0.00E+00	2.16E-08	1.39E-04	0.00E+00	0.00E+00	1.39E-04
74	ALL	495186	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.08E-08	2.08E-08	2.08E-08	1.01E-04	0.00E+00	0.00E+00	0.00E+00	2.08E-08	1.34E-04	0.00E+00	0.00E+00	1.34E-04
75	ALL	495206	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.01E-08	2.01E-08	2.01E-08	9.69E-05	0.00E+00	0.00E+00	0.00E+00	2.01E-08	1.30E-04	0.00E+00	0.00E+00	1.30E-04
76	ALL	495226	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.96E-08	1.96E-08	1.96E-08	9.28E-05	0.00E+00	0.00E+00	0.00E+00	1.96E-08	1.26E-04	0.00E+00	0.00E+00	1.26E-04
77	ALL	495246	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.91E-08	1.91E-08	1.91E-08	8.84E-05	0.00E+00	0.00E+00	0.00E+00	1.91E-08	1.22E-04	0.00E+00	0.00E+00	1.22E-04
78	ALL	495266	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.85E-08	1.85E-08	1.85E-08	8.43E-05	0.00E+00	0.00E+00	0.00E+00	1.85E-08	1.18E-04	0.00E+00	0.00E+00	1.18E-04
79	ALL	495286	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.78E-08	1.78E-08	1.78E-08	8.01E-05	0.00E+00	0.00E+00	0.00E+00	1.78E-08	1.14E-04	0.00E+00	0.00E+00	1.14E-04
80	ALL	495306	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.72E-08	1.72E-08	1.72E-08	7.63E-05	0.00E+00	0.00E+00	0.00E+00	1.72E-08	1.10E-04	0.00E+00	0.00E+00	1.10E-04
81	ALL	495326	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.66E-08	1.66E-08	1.66E-08	7.29E-05	0.00E+00	0.00E+00	0.00E+00	1.66E-08	1.06E-04	0.00E+00	0.00E+00	1.06E-04
82	ALL	495346	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.60E-08	1.60E-08	1.60E-08	6.96E-05	0.00E+00	0.00E+00	0.00E+00	1.60E-08	1.02E-04	0.00E+00	0.00E+00	1.02E-04
83	ALL	495366	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.55E-08	1.55E-08	1.55E-08	6.67E-05	0.00E+00	0.00E+00	0.00E+00	1.55E-08	9.85E-05	0.00E+00	0.00E+00	9.85E-05
84	ALL	495386	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.50E-08	1.50E-08	1.50E-08	6.40E-05	0.00E+00	0.00E+00	0.00E+00	1.50E-08	9.51E-05	0.00E+00	0.00E+00	9.51E-05
85	ALL	495406	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.44E-08	1.44E-08	1.44E-08	6.13E-05	0.00E+00	0.00E+00	0.00E+00	1.44E-08	9.19E-05	0.00E+00	0.00E+00	9.19E-05
86	ALL	495426	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.39E-08	1.39E-08	1.39E-08	5.87E-05	0.00E+00	0.00E+00	0.00E+00	1.39E-08	8.86E-05	0.00E+00	0.00E+00	8.86E-05
87	ALL	495446	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.34E-08	1.34E-08	1.34E-08	5.61E-05	0.00E+00	0.00E+00	0.00E+00	1.34E-08	8.53E-05	0.00E+00	0.00E+00	8.53E-05
88	ALL	495466	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.30E-08	1.30E-08	1.30E-08	5.39E-05	0.00E+00	0.00E+00	0.00E+00	1.30E-08	8.25E-05	0.00E+00	0.00E+00	8.25E-05
89	ALL	495486	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.26E-08	1.26E-08	1.26E-08	5.21E-05	0.00E+00	0.00E+00	0.00E+00	1.26E-08	8.00E-05	0.00E+00	0.00E+00	8.00E-05
90	ALL	495506	3761396	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.23E-08	1.23E-08	1.23E-08	5.07E-05	0.00E+00	0.00E+00	0.00E+00	1.23E-08	7.82E-05	0.00E+00	0.00E+00	7.82E-05
91	ALL	494966	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.45E-08	3.45E-08	3.45E-08	1.91E-04	0.00E+00	0.00E+00	0.00E+00	3.45E-08	2.23E-04	0.00E+00	0.00E+00	2.23E-04
92	ALL	494986	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.30E-08	3.30E-08	3.30E-08	1.77E-04	0.00E+00	0.00E+00	0.00E+00	3.30E-08	2.13E-04	0.00E+00	0.00E+00	2.13E-04
93	ALL	495006	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.15E-08	3.15E-08	3.15E-08	1.65E-04	0.00E+00	0.00E+00	0.00E+00	3.15E-08	2.03E-04	0.00E+00	0.00E+00	2.03E-04
94	ALL	495026	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.02E-08	3.02E-08	3.02E-08	1.55E-04	0.00E+00	0.00E+00	0.00E+00	3.02E-08	1.94E-04	0.00E+00	0.00E+00	1.94E-04
95	ALL	495046	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.89E-08	2.89E-08	2.89E-08	1.45E-04	0.00E+00	0.00E+00	0.00E+00	2.89E-08	1.86E-04	0.00E+00	0.00E+00	1.86E-04
96	ALL	495066	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.77E-08	2.77E-08	2.77E-08	1.36E-04	0.00E+00	0.00E+00	0.00E+00	2.77E-08	1.78E-04	0.00E+00	0.00E+00	1.78E-04
97	ALL	495086	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.66E-08	2.66E-08	2.66E-08	1.29E-04	0.00E+00	0.00E+00	0.00E+00	2.66E-08	1.71E-04	0.00E+00	0.00E+00	1.71E-04
98	ALL	495106	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.54E-08	2.54E-08	2.54E-08	1.22E-04	0.00E+00	0.00E+00	0.00E+00	2.54E-08	1.63E-04	0.00E+00	0.00E+00	1.63E-04
99	ALL	495126	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.43E-08	2.43E-08	2.43E-08	1.16E-04	0.00E+00	0.00E+00	0.00E+00	2.43E-08	1.56E-04	0.00E+00	0.00E+00	1.56E-04
100	ALL	495146	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.34E-08	2.34E-08	2.34E-08	1.10E-04	0.00E+00	0.00E+00	0.00E+00	2.34E-08	1.50E-04	0.00E+00	0.00E+00	1.50E-04
101	ALL	495166	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.25E-08	2.25E-08	2.25E-08	1.05E-04	0.00E+00	0.00E+00	0.00E+00	2.25E-08	1.45E-04	0.00E+00	0.00E+00	1.45E-04
102	ALL	495186	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.16E-08	2.16E-08	2.16E-08	1.00E-04	0.00E+00	0.00E+00	0.00E+00	2.16E-08	1.39E-04	0.00E+00	0.00E+00	1.39E-04
103	ALL	495206	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.09E-08	2.09E-08	2.09E-08	9.56E-05	0.00E+00	0.00E+00	0.00E+00	2.09E-08	1.34E-04	0.00E+00	0.00E+00	1.34E-04

104	ALL	495226	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.03E-08	2.03E-08	2.03E-08	9.10E-05	0.00E+00	0.00E+00	0.00E+00	2.03E-08	1.30E-04	0.00E+00	0.00E+00	1.30E-04
105	ALL	495246	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.96E-08	1.96E-08	1.96E-08	8.64E-05	0.00E+00	0.00E+00	0.00E+00	1.96E-08	1.25E-04	0.00E+00	0.00E+00	1.25E-04
106	ALL	495266	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.89E-08	1.89E-08	1.89E-08	8.24E-05	0.00E+00	0.00E+00	0.00E+00	1.89E-08	1.21E-04	0.00E+00	0.00E+00	1.21E-04
107	ALL	495286	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.82E-08	1.82E-08	1.82E-08	7.86E-05	0.00E+00	0.00E+00	0.00E+00	1.82E-08	1.16E-04	0.00E+00	0.00E+00	1.16E-04
108	ALL	495306	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.76E-08	1.76E-08	1.76E-08	7.51E-05	0.00E+00	0.00E+00	0.00E+00	1.76E-08	1.12E-04	0.00E+00	0.00E+00	1.12E-04
109	ALL	495326	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.69E-08	1.69E-08	1.69E-08	7.15E-05	0.00E+00	0.00E+00	0.00E+00	1.69E-08	1.08E-04	0.00E+00	0.00E+00	1.08E-04
110	ALL	495346	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.63E-08	1.63E-08	1.63E-08	6.79E-05	0.00E+00	0.00E+00	0.00E+00	1.63E-08	1.03E-04	0.00E+00	0.00E+00	1.03E-04
111	ALL	495366	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.57E-08	1.57E-08	1.57E-08	6.51E-05	0.00E+00	0.00E+00	0.00E+00	1.57E-08	9.99E-05	0.00E+00	0.00E+00	9.99E-05
112	ALL	495386	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.52E-08	1.52E-08	1.52E-08	6.25E-05	0.00E+00	0.00E+00	0.00E+00	1.52E-08	9.65E-05	0.00E+00	0.00E+00	9.65E-05
113	ALL	495406	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.47E-08	1.47E-08	1.47E-08	6.00E-05	0.00E+00	0.00E+00	0.00E+00	1.47E-08	9.32E-05	0.00E+00	0.00E+00	9.32E-05
114	ALL	495426	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.42E-08	1.42E-08	1.42E-08	5.76E-05	0.00E+00	0.00E+00	0.00E+00	1.42E-08	9.00E-05	0.00E+00	0.00E+00	9.00E-05
115	ALL	495446	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.37E-08	1.37E-08	1.37E-08	5.53E-05	0.00E+00	0.00E+00	0.00E+00	1.37E-08	8.69E-05	0.00E+00	0.00E+00	8.69E-05
116	ALL	495466	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.33E-08	1.33E-08	1.33E-08	5.32E-05	0.00E+00	0.00E+00	0.00E+00	1.33E-08	8.40E-05	0.00E+00	0.00E+00	8.40E-05
117	ALL	495486	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.28E-08	1.28E-08	1.28E-08	5.14E-05	0.00E+00	0.00E+00	0.00E+00	1.28E-08	8.14E-05	0.00E+00	0.00E+00	8.14E-05
118	ALL	495506	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.25E-08	1.25E-08	1.25E-08	4.98E-05	0.00E+00	0.00E+00	0.00E+00	1.25E-08	7.92E-05	0.00E+00	0.00E+00	7.92E-05
119	ALL	495526	3761416	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.22E-08	1.22E-08	1.22E-08	4.85E-05	0.00E+00	0.00E+00	0.00E+00	1.22E-08	7.73E-05	0.00E+00	0.00E+00	7.73E-05
120	ALL	494966	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.61E-08	3.61E-08	3.61E-08	1.85E-04	0.00E+00	0.00E+00	0.00E+00	3.61E-08	2.33E-04	0.00E+00	0.00E+00	2.33E-04
121	ALL	494986	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.44E-08	3.44E-08	3.44E-08	1.72E-04	0.00E+00	0.00E+00	0.00E+00	3.44E-08	2.22E-04	0.00E+00	0.00E+00	2.22E-04
122	ALL	495006	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.28E-08	3.28E-08	3.28E-08	1.61E-04	0.00E+00	0.00E+00	0.00E+00	3.28E-08	2.11E-04	0.00E+00	0.00E+00	2.11E-04
123	ALL	495026	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.13E-08	3.13E-08	3.13E-08	1.50E-04	0.00E+00	0.00E+00	0.00E+00	3.13E-08	2.01E-04	0.00E+00	0.00E+00	2.01E-04
124	ALL	495046	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.00E-08	3.00E-08	3.00E-08	1.41E-04	0.00E+00	0.00E+00	0.00E+00	3.00E-08	1.92E-04	0.00E+00	0.00E+00	1.92E-04
125	ALL	495066	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.87E-08	2.87E-08	2.87E-08	1.33E-04	0.00E+00	0.00E+00	0.00E+00	2.87E-08	1.84E-04	0.00E+00	0.00E+00	1.84E-04
126	ALL	495086	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.75E-08	2.75E-08	2.75E-08	1.25E-04	0.00E+00	0.00E+00	0.00E+00	2.75E-08	1.76E-04	0.00E+00	0.00E+00	1.76E-04
127	ALL	495106	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.63E-08	2.63E-08	2.63E-08	1.19E-04	0.00E+00	0.00E+00	0.00E+00	2.63E-08	1.69E-04	0.00E+00	0.00E+00	1.69E-04
128	ALL	495126	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.52E-08	2.52E-08	2.52E-08	1.13E-04	0.00E+00	0.00E+00	0.00E+00	2.52E-08	1.62E-04	0.00E+00	0.00E+00	1.62E-04
129	ALL	495146	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.42E-08	2.42E-08	2.42E-08	1.08E-04	0.00E+00	0.00E+00	0.00E+00	2.42E-08	1.55E-04	0.00E+00	0.00E+00	1.55E-04
130	ALL	495166	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.33E-08	2.33E-08	2.33E-08	1.03E-04	0.00E+00	0.00E+00	0.00E+00	2.33E-08	1.49E-04	0.00E+00	0.00E+00	1.49E-04
131	ALL	495186	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.24E-08	2.24E-08	2.24E-08	9.78E-05	0.00E+00	0.00E+00	0.00E+00	2.24E-08	1.43E-04	0.00E+00	0.00E+00	1.43E-04
132	ALL	495206	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.16E-08	2.16E-08	2.16E-08	9.33E-05	0.00E+00	0.00E+00	0.00E+00	2.16E-08	1.38E-04	0.00E+00	0.00E+00	1.38E-04
133	ALL	495226	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.08E-08	2.08E-08	2.08E-08	8.88E-05	0.00E+00	0.00E+00	0.00E+00	2.08E-08	1.33E-04	0.00E+00	0.00E+00	1.33E-04
134	ALL	495246	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.00E-08	2.00E-08	2.00E-08	8.42E-05	0.00E+00	0.00E+00	0.00E+00	2.00E-08	1.28E-04	0.00E+00	0.00E+00	1.28E-04
135	ALL	495266	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.93E-08	1.93E-08	1.93E-08	8.05E-05	0.00E+00	0.00E+00	0.00E+00	1.93E-08	1.23E-04	0.00E+00	0.00E+00	1.23E-04
136	ALL	495286	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.86E-08	1.86E-08	1.86E-08	7.71E-05	0.00E+00	0.00E+00	0.00E+00	1.86E-08	1.19E-04	0.00E+00	0.00E+00	1.19E-04
137	ALL	495306	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.80E-08	1.80E-08	1.80E-08	7.36E-05	0.00E+00	0.00E+00	0.00E+00	1.80E-08	1.14E-04	0.00E+00	0.00E+00	1.14E-04
138	ALL	495326	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.73E-08	1.73E-08	1.73E-08	6.99E-05	0.00E+00	0.00E+00	0.00E+00	1.73E-08	1.10E-04	0.00E+00	0.00E+00	1.10E-04
139	ALL	495346	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.65E-08	1.65E-08	1.65E-08	6.58E-05	0.00E+00	0.00E+00	0.00E+00	1.65E-08	1.05E-04	0.00E+00	0.00E+00	1.05E-04
140	ALL	495366	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.59E-08	1.59E-08	1.59E-08	6.32E-05	0.00E+00	0.00E+00	0.00E+00	1.59E-08	1.01E-04	0.00E+00	0.00E+00	1.01E-04
141	ALL	495386	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.54E-08	1.54E-08	1.54E-08	6.08E-05	0.00E+00	0.00E+00	0.00E+00	1.54E-08	9.76E-05	0.00E+00	0.00E+00	9.76E-05
142	ALL	495406	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.49E-08	1.49E-08	1.49E-08	5.86E-05	0.00E+00	0.00E+00	0.00E+00	1.49E-08	9.44E-05	0.00E+00	0.00E+00	9.44E-05
143	ALL	495426	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.44E-08	1.44E-08	1.44E-08	5.64E-05	0.00E+00	0.00E+00	0.00E+00	1.44E-08	9.13E-05	0.00E+00	0.00E+00	9.13E-05
144	ALL	495446	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.39E-08	1.39E-08	1.39E-08	5.43E-05	0.00E+00	0.00E+00	0.00E+00	1.39E-08	8.82E-05	0.00E+00	0.00E+00	8.82E-05
145	ALL	495466	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.35E-08	1.35E-08	1.35E-08	5.24E-05	0.00E+00	0.00E+00	0.00E+00	1.35E-08	8.54E-05	0.00E+00	0.00E+00	8.54E-05
146	ALL	495486	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.31E-08	1.31E-08	1.31E-08	5.05E-05	0.00E+00	0.00E+00	0.00E+00	1.31E-08	8.27E-05	0.00E+00	0.00E+00	8.27E-05
147	ALL	495506	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.27E-08	1.27E-08	1.27E-08	4.88E-05	0.00E+00	0.00E+00	0.00E+00	1.27E-08	8.02E-05	0.00E+00	0.00E+00	8.02E-05
148	ALL	495526	3761436	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.23E-08	1.23E-08	1.23E-08	4.73E-05	0.00E+00	0.00E+00	0.00E+00	1.23E-08	7.79E-05	0.00E+00	0.00E+00	7.79E-05
149	ALL	494846	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	5.16E-08	5.16E-08	5.16E-08	3.25E-04	0.00E+00	0.00E+00	0.00E+00	5.16E-08	3.36E-04	0.00E+00	0.00E+00	3.36E-04
150	ALL	494946	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.95E-08	3.95E-08	3.95E-08	1.94E-04	0.00E+00	0.00E+00	0.00E+00	3.95E-08	2.55E-04	0.00E+00	0.00E+00	2.55E-04
151	ALL	494966	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.76E-08	3.76E-08	3.76E-08	1.79E-04	0.00E+00	0.00E+00	0.00E+00	3.76E-08	2.42E-04	0.00E+00	0.00E+00	2.42E-04
152	ALL	494986	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.58E-08	3.58E-08	3.58E-08	1.66E-04	0.00E+00	0.00E+00	0.00E+00	3.58E-08	2.30E-04	0.00E+00	0.00E+00	2.30E-04
153	ALL	495006	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.41E-08	3.41E-08	3.41E-08	1.56E-04	0.00E+00	0.00E+00	0.00E+00	3.41E-08	2.19E-04	0.00E+00	0.00E+00	2.19E-04
154	ALL	495026	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.25E-08	3.25E-08	3.25E-08	1.46E-04	0.00E+00	0.00E+00	0.00E+00	3.25E-08	2.08E-04	0.00E+00	0.00E+00	2.08E-04
155	ALL	495046	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.10E-08	3.10E-08	3.10E-08	1.37E-04	0.00E+00	0.00E+00	0.00E+00	3.10E-08	1.99E-04	0.00E+00	0.00E+00	1.99E-04

156	ALL	495066	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.96E-08	2.96E-08	2.96E-08	1.29E-04	0.00E+00	0.00E+00	0.00E+00	2.96E-08	1.90E-04	0.00E+00	0.00E+00	1.90E-04
157	ALL	495086	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.83E-08	2.83E-08	2.83E-08	1.21E-04	0.00E+00	0.00E+00	0.00E+00	2.83E-08	1.81E-04	0.00E+00	0.00E+00	1.81E-04
158	ALL	495106	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.71E-08	2.71E-08	2.71E-08	1.15E-04	0.00E+00	0.00E+00	0.00E+00	2.71E-08	1.73E-04	0.00E+00	0.00E+00	1.73E-04
159	ALL	495126	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.60E-08	2.60E-08	2.60E-08	1.09E-04	0.00E+00	0.00E+00	0.00E+00	2.60E-08	1.66E-04	0.00E+00	0.00E+00	1.66E-04
160	ALL	495146	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.49E-08	2.49E-08	2.49E-08	1.04E-04	0.00E+00	0.00E+00	0.00E+00	2.49E-08	1.59E-04	0.00E+00	0.00E+00	1.59E-04
161	ALL	495166	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.39E-08	2.39E-08	2.39E-08	9.95E-05	0.00E+00	0.00E+00	0.00E+00	2.39E-08	1.53E-04	0.00E+00	0.00E+00	1.53E-04
162	ALL	495186	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.30E-08	2.30E-08	2.30E-08	9.50E-05	0.00E+00	0.00E+00	0.00E+00	2.30E-08	1.47E-04	0.00E+00	0.00E+00	1.47E-04
163	ALL	495206	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.21E-08	2.21E-08	2.21E-08	9.07E-05	0.00E+00	0.00E+00	0.00E+00	2.21E-08	1.41E-04	0.00E+00	0.00E+00	1.41E-04
164	ALL	495226	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.13E-08	2.13E-08	2.13E-08	8.62E-05	0.00E+00	0.00E+00	0.00E+00	2.13E-08	1.36E-04	0.00E+00	0.00E+00	1.36E-04
165	ALL	495246	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.05E-08	2.05E-08	2.05E-08	8.18E-05	0.00E+00	0.00E+00	0.00E+00	2.05E-08	1.30E-04	0.00E+00	0.00E+00	1.30E-04
166	ALL	495266	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.97E-08	1.97E-08	1.97E-08	7.84E-05	0.00E+00	0.00E+00	0.00E+00	1.97E-08	1.25E-04	0.00E+00	0.00E+00	1.25E-04
167	ALL	495286	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.90E-08	1.90E-08	1.90E-08	7.51E-05	0.00E+00	0.00E+00	0.00E+00	1.90E-08	1.21E-04	0.00E+00	0.00E+00	1.21E-04
168	ALL	495306	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.83E-08	1.83E-08	1.83E-08	7.17E-05	0.00E+00	0.00E+00	0.00E+00	1.83E-08	1.16E-04	0.00E+00	0.00E+00	1.16E-04
169	ALL	495326	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.76E-08	1.76E-08	1.76E-08	6.80E-05	0.00E+00	0.00E+00	0.00E+00	1.76E-08	1.11E-04	0.00E+00	0.00E+00	1.11E-04
170	ALL	495346	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.67E-08	1.67E-08	1.67E-08	6.40E-05	0.00E+00	0.00E+00	0.00E+00	1.67E-08	1.06E-04	0.00E+00	0.00E+00	1.06E-04
171	ALL	495366	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.62E-08	1.62E-08	1.62E-08	6.16E-05	0.00E+00	0.00E+00	0.00E+00	1.62E-08	1.02E-04	0.00E+00	0.00E+00	1.02E-04
172	ALL	495386	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.56E-08	1.56E-08	1.56E-08	5.94E-05	0.00E+00	0.00E+00	0.00E+00	1.56E-08	9.90E-05	0.00E+00	0.00E+00	9.90E-05
173	ALL	495406	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.51E-08	1.51E-08	1.51E-08	5.73E-05	0.00E+00	0.00E+00	0.00E+00	1.51E-08	9.57E-05	0.00E+00	0.00E+00	9.57E-05
174	ALL	495426	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.46E-08	1.46E-08	1.46E-08	5.51E-05	0.00E+00	0.00E+00	0.00E+00	1.46E-08	9.24E-05	0.00E+00	0.00E+00	9.24E-05
175	ALL	495446	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.41E-08	1.41E-08	1.41E-08	5.29E-05	0.00E+00	0.00E+00	0.00E+00	1.41E-08	8.91E-05	0.00E+00	0.00E+00	8.91E-05
176	ALL	495466	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.37E-08	1.37E-08	1.37E-08	5.11E-05	0.00E+00	0.00E+00	0.00E+00	1.37E-08	8.63E-05	0.00E+00	0.00E+00	8.63E-05
177	ALL	495486	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.33E-08	1.33E-08	1.33E-08	4.95E-05	0.00E+00	0.00E+00	0.00E+00	1.33E-08	8.37E-05	0.00E+00	0.00E+00	8.37E-05
178	ALL	495506	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.28E-08	1.28E-08	1.28E-08	4.78E-05	0.00E+00	0.00E+00	0.00E+00	1.28E-08	8.11E-05	0.00E+00	0.00E+00	8.11E-05
179	ALL	495526	3761456	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.24E-08	1.24E-08	1.24E-08	4.62E-05	0.00E+00	0.00E+00	0.00E+00	1.24E-08	7.85E-05	0.00E+00	0.00E+00	7.85E-05
180	ALL	494866	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	5.16E-08	5.16E-08	5.16E-08	2.75E-04	0.00E+00	0.00E+00	0.00E+00	5.16E-08	3.34E-04	0.00E+00	0.00E+00	3.34E-04
181	ALL	494886	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.87E-08	4.87E-08	4.87E-08	2.44E-04	0.00E+00	0.00E+00	0.00E+00	4.87E-08	3.15E-04	0.00E+00	0.00E+00	3.15E-04
182	ALL	494906	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.60E-08	4.60E-08	4.60E-08	2.21E-04	0.00E+00	0.00E+00	0.00E+00	4.60E-08	2.97E-04	0.00E+00	0.00E+00	2.97E-04
183	ALL	494926	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.35E-08	4.35E-08	4.35E-08	2.02E-04	0.00E+00	0.00E+00	0.00E+00	4.35E-08	2.80E-04	0.00E+00	0.00E+00	2.80E-04
184	ALL	494946	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.12E-08	4.12E-08	4.12E-08	1.86E-04	0.00E+00	0.00E+00	0.00E+00	4.12E-08	2.65E-04	0.00E+00	0.00E+00	2.65E-04
185	ALL	494966	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.91E-08	3.91E-08	3.91E-08	1.72E-04	0.00E+00	0.00E+00	0.00E+00	3.91E-08	2.51E-04	0.00E+00	0.00E+00	2.51E-04
186	ALL	494986	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.71E-08	3.71E-08	3.71E-08	1.60E-04	0.00E+00	0.00E+00	0.00E+00	3.71E-08	2.38E-04	0.00E+00	0.00E+00	2.38E-04
187	ALL	495006	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.53E-08	3.53E-08	3.53E-08	1.50E-04	0.00E+00	0.00E+00	0.00E+00	3.53E-08	2.26E-04	0.00E+00	0.00E+00	2.26E-04
188	ALL	495026	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.36E-08	3.36E-08	3.36E-08	1.41E-04	0.00E+00	0.00E+00	0.00E+00	3.36E-08	2.15E-04	0.00E+00	0.00E+00	2.15E-04
189	ALL	495046	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.20E-08	3.20E-08	3.20E-08	1.32E-04	0.00E+00	0.00E+00	0.00E+00	3.20E-08	2.04E-04	0.00E+00	0.00E+00	2.04E-04
190	ALL	495066	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.05E-08	3.05E-08	3.05E-08	1.24E-04	0.00E+00	0.00E+00	0.00E+00	3.05E-08	1.95E-04	0.00E+00	0.00E+00	1.95E-04
191	ALL	495086	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.91E-08	2.91E-08	2.91E-08	1.17E-04	0.00E+00	0.00E+00	0.00E+00	2.91E-08	1.86E-04	0.00E+00	0.00E+00	1.86E-04
192	ALL	495106	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.78E-08	2.78E-08	2.78E-08	1.11E-04	0.00E+00	0.00E+00	0.00E+00	2.78E-08	1.77E-04	0.00E+00	0.00E+00	1.77E-04
193	ALL	495126	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.66E-08	2.66E-08	2.66E-08	1.06E-04	0.00E+00	0.00E+00	0.00E+00	2.66E-08	1.70E-04	0.00E+00	0.00E+00	1.70E-04
194	ALL	495146	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.55E-08	2.55E-08	2.55E-08	1.01E-04	0.00E+00	0.00E+00	0.00E+00	2.55E-08	1.62E-04	0.00E+00	0.00E+00	1.62E-04
195	ALL	495166	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.45E-08	2.45E-08	2.45E-08	9.62E-05	0.00E+00	0.00E+00	0.00E+00	2.45E-08	1.56E-04	0.00E+00	0.00E+00	1.56E-04
196	ALL	495186	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.35E-08	2.35E-08	2.35E-08	9.18E-05	0.00E+00	0.00E+00	0.00E+00	2.35E-08	1.49E-04	0.00E+00	0.00E+00	1.49E-04
197	ALL	495206	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.26E-08	2.26E-08	2.26E-08	8.76E-05	0.00E+00	0.00E+00	0.00E+00	2.26E-08	1.43E-04	0.00E+00	0.00E+00	1.43E-04
198	ALL	495226	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.17E-08	2.17E-08	2.17E-08	8.33E-05	0.00E+00	0.00E+00	0.00E+00	2.17E-08	1.38E-04	0.00E+00	0.00E+00	1.38E-04
199	ALL	495246	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.08E-08	2.08E-08	2.08E-08	7.92E-05	0.00E+00	0.00E+00	0.00E+00	2.08E-08	1.32E-04	0.00E+00	0.00E+00	1.32E-04
200	ALL	495266	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.01E-08	2.01E-08	2.01E-08	7.60E-05	0.00E+00	0.00E+00	0.00E+00	2.01E-08	1.27E-04	0.00E+00	0.00E+00	1.27E-04
201	ALL	495286	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.93E-08	1.93E-08	1.93E-08	7.28E-05	0.00E+00	0.00E+00	0.00E+00	1.93E-08	1.22E-04	0.00E+00	0.00E+00	1.22E-04
202	ALL	495306	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.86E-08	1.86E-08	1.86E-08	6.96E-05	0.00E+00	0.00E+00	0.00E+00	1.86E-08	1.18E-04	0.00E+00	0.00E+00	1.18E-04
203	ALL	495326	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.78E-08	1.78E-08	1.78E-08	6.61E-05	0.00E+00	0.00E+00	0.00E+00	1.78E-08	1.13E-04	0.00E+00	0.00E+00	1.13E-04
204	ALL	495346	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.70E-08	1.70E-08	1.70E-08	6.23E-05	0.00E+00	0.00E+00	0.00E+00	1.70E-08	1.07E-04	0.00E+00	0.00E+00	1.07E-04
205	ALL	495366	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.64E-08	1.64E-08	1.64E-08	6.01E-05	0.00E+00	0.00E+00	0.00E+00	1.64E-08	1.04E-04	0.00E+00	0.00E+00	1.04E-04
206	ALL	495386	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.59E-08	1.59E-08	1.59E-08	5.81E-05	0.00E+00	0.00E+00	0.00E+00	1.59E-08	1.00E-04	0.00E+00	0.00E+00	1.00E-04
207	ALL	495406	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.53E-08	1.53E-08	1.53E-08	5.60E-05	0.00E+00	0.00E+00	0.00E+00	1.53E-08	9.69E-05	0.00E+00	0.00E+00	9.69E-05

208	ALL	495426	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.48E-08	1.48E-08	1.48E-08	5.37E-05	0.00E+00	0.00E+00	0.00E+00	1.48E-08	9.34E-05	0.00E+00	0.00E+00	9.34E-05
209	ALL	495446	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.42E-08	1.42E-08	1.42E-08	5.14E-05	0.00E+00	0.00E+00	0.00E+00	1.42E-08	8.97E-05	0.00E+00	0.00E+00	8.97E-05
210	ALL	495466	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.38E-08	1.38E-08	1.38E-08	4.99E-05	0.00E+00	0.00E+00	0.00E+00	1.38E-08	8.70E-05	0.00E+00	0.00E+00	8.70E-05
211	ALL	495486	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.34E-08	1.34E-08	1.34E-08	4.83E-05	0.00E+00	0.00E+00	0.00E+00	1.34E-08	8.44E-05	0.00E+00	0.00E+00	8.44E-05
212	ALL	495506	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.30E-08	1.30E-08	1.30E-08	4.67E-05	0.00E+00	0.00E+00	0.00E+00	1.30E-08	8.18E-05	0.00E+00	0.00E+00	8.18E-05
213	ALL	495526	3761476	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.26E-08	1.26E-08	1.26E-08	4.51E-05	0.00E+00	0.00E+00	0.00E+00	1.26E-08	7.91E-05	0.00E+00	0.00E+00	7.91E-05
214	ALL	494866	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	5.40E-08	5.40E-08	5.40E-08	2.65E-04	0.00E+00	0.00E+00	0.00E+00	5.40E-08	3.49E-04	0.00E+00	0.00E+00	3.49E-04
215	ALL	494886	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	5.08E-08	5.08E-08	5.08E-08	2.35E-04	0.00E+00	0.00E+00	0.00E+00	5.08E-08	3.28E-04	0.00E+00	0.00E+00	3.28E-04
216	ALL	494906	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.79E-08	4.79E-08	4.79E-08	2.12E-04	0.00E+00	0.00E+00	0.00E+00	4.79E-08	3.08E-04	0.00E+00	0.00E+00	3.08E-04
217	ALL	494926	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.52E-08	4.52E-08	4.52E-08	1.94E-04	0.00E+00	0.00E+00	0.00E+00	4.52E-08	2.90E-04	0.00E+00	0.00E+00	2.90E-04
218	ALL	494946	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.27E-08	4.27E-08	4.27E-08	1.79E-04	0.00E+00	0.00E+00	0.00E+00	4.27E-08	2.74E-04	0.00E+00	0.00E+00	2.74E-04
219	ALL	494966	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.04E-08	4.04E-08	4.04E-08	1.66E-04	0.00E+00	0.00E+00	0.00E+00	4.04E-08	2.59E-04	0.00E+00	0.00E+00	2.59E-04
220	ALL	494986	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.83E-08	3.83E-08	3.83E-08	1.54E-04	0.00E+00	0.00E+00	0.00E+00	3.83E-08	2.45E-04	0.00E+00	0.00E+00	2.45E-04
221	ALL	495006	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.63E-08	3.63E-08	3.63E-08	1.45E-04	0.00E+00	0.00E+00	0.00E+00	3.63E-08	2.32E-04	0.00E+00	0.00E+00	2.32E-04
222	ALL	495026	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.45E-08	3.45E-08	3.45E-08	1.36E-04	0.00E+00	0.00E+00	0.00E+00	3.45E-08	2.20E-04	0.00E+00	0.00E+00	2.20E-04
223	ALL	495046	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.28E-08	3.28E-08	3.28E-08	1.27E-04	0.00E+00	0.00E+00	0.00E+00	3.28E-08	2.09E-04	0.00E+00	0.00E+00	2.09E-04
224	ALL	495066	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.13E-08	3.13E-08	3.13E-08	1.20E-04	0.00E+00	0.00E+00	0.00E+00	3.13E-08	1.99E-04	0.00E+00	0.00E+00	1.99E-04
225	ALL	495086	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.98E-08	2.98E-08	2.98E-08	1.13E-04	0.00E+00	0.00E+00	0.00E+00	2.98E-08	1.89E-04	0.00E+00	0.00E+00	1.89E-04
226	ALL	495106	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.84E-08	2.84E-08	2.84E-08	1.07E-04	0.00E+00	0.00E+00	0.00E+00	2.84E-08	1.81E-04	0.00E+00	0.00E+00	1.81E-04
227	ALL	495126	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.72E-08	2.72E-08	2.72E-08	1.02E-04	0.00E+00	0.00E+00	0.00E+00	2.72E-08	1.73E-04	0.00E+00	0.00E+00	1.73E-04
228	ALL	495146	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.60E-08	2.60E-08	2.60E-08	9.71E-05	0.00E+00	0.00E+00	0.00E+00	2.60E-08	1.65E-04	0.00E+00	0.00E+00	1.65E-04
229	ALL	495166	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.49E-08	2.49E-08	2.49E-08	9.26E-05	0.00E+00	0.00E+00	0.00E+00	2.49E-08	1.58E-04	0.00E+00	0.00E+00	1.58E-04
230	ALL	495186	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.39E-08	2.39E-08	2.39E-08	8.81E-05	0.00E+00	0.00E+00	0.00E+00	2.39E-08	1.51E-04	0.00E+00	0.00E+00	1.51E-04
231	ALL	495206	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.29E-08	2.29E-08	2.29E-08	8.40E-05	0.00E+00	0.00E+00	0.00E+00	2.29E-08	1.45E-04	0.00E+00	0.00E+00	1.45E-04
232	ALL	495226	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.20E-08	2.20E-08	2.20E-08	8.01E-05	0.00E+00	0.00E+00	0.00E+00	2.20E-08	1.39E-04	0.00E+00	0.00E+00	1.39E-04
233	ALL	495246	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.11E-08	2.11E-08	2.11E-08	7.66E-05	0.00E+00	0.00E+00	0.00E+00	2.11E-08	1.33E-04	0.00E+00	0.00E+00	1.33E-04
234	ALL	495266	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.03E-08	2.03E-08	2.03E-08	7.34E-05	0.00E+00	0.00E+00	0.00E+00	2.03E-08	1.28E-04	0.00E+00	0.00E+00	1.28E-04
235	ALL	495286	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.95E-08	1.95E-08	1.95E-08	7.03E-05	0.00E+00	0.00E+00	0.00E+00	1.95E-08	1.23E-04	0.00E+00	0.00E+00	1.23E-04
236	ALL	495306	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.88E-08	1.88E-08	1.88E-08	6.72E-05	0.00E+00	0.00E+00	0.00E+00	1.88E-08	1.18E-04	0.00E+00	0.00E+00	1.18E-04
237	ALL	495326	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.80E-08	1.80E-08	1.80E-08	6.40E-05	0.00E+00	0.00E+00	0.00E+00	1.80E-08	1.13E-04	0.00E+00	0.00E+00	1.13E-04
238	ALL	495346	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.72E-08	1.72E-08	1.72E-08	6.08E-05	0.00E+00	0.00E+00	0.00E+00	1.72E-08	1.08E-04	0.00E+00	0.00E+00	1.08E-04
239	ALL	495366	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.66E-08	1.66E-08	1.66E-08	5.88E-05	0.00E+00	0.00E+00	0.00E+00	1.66E-08	1.05E-04	0.00E+00	0.00E+00	1.05E-04
240	ALL	495386	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.61E-08	1.61E-08	1.61E-08	5.68E-05	0.00E+00	0.00E+00	0.00E+00	1.61E-08	1.01E-04	0.00E+00	0.00E+00	1.01E-04
241	ALL	495406	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.55E-08	1.55E-08	1.55E-08	5.46E-05	0.00E+00	0.00E+00	0.00E+00	1.55E-08	9.77E-05	0.00E+00	0.00E+00	9.77E-05
242	ALL	495426	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.49E-08	1.49E-08	1.49E-08	5.24E-05	0.00E+00	0.00E+00	0.00E+00	1.49E-08	9.40E-05	0.00E+00	0.00E+00	9.40E-05
243	ALL	495446	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.43E-08	1.43E-08	1.43E-08	4.99E-05	0.00E+00	0.00E+00	0.00E+00	1.43E-08	9.01E-05	0.00E+00	0.00E+00	9.01E-05
244	ALL	495466	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.39E-08	1.39E-08	1.39E-08	4.85E-05	0.00E+00	0.00E+00	0.00E+00	1.39E-08	8.74E-05	0.00E+00	0.00E+00	8.74E-05
245	ALL	495486	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.35E-08	1.35E-08	1.35E-08	4.71E-05	0.00E+00	0.00E+00	0.00E+00	1.35E-08	8.48E-05	0.00E+00	0.00E+00	8.48E-05
246	ALL	495506	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.31E-08	1.31E-08	1.31E-08	4.55E-05	0.00E+00	0.00E+00	0.00E+00	1.31E-08	8.22E-05	0.00E+00	0.00E+00	8.22E-05
247	ALL	495526	3761496	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.26E-08	1.26E-08	1.26E-08	4.39E-05	0.00E+00	0.00E+00	0.00E+00	1.26E-08	7.94E-05	0.00E+00	0.00E+00	7.94E-05
248	ALL	494866	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	5.62E-08	5.62E-08	5.62E-08	2.55E-04	0.00E+00	0.00E+00	0.00E+00	5.62E-08	3.61E-04	0.00E+00	0.00E+00	3.61E-04
249	ALL	494886	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	5.27E-08	5.27E-08	5.27E-08	2.25E-04	0.00E+00	0.00E+00	0.00E+00	5.27E-08	3.38E-04	0.00E+00	0.00E+00	3.38E-04
250	ALL	494906	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.94E-08	4.94E-08	4.94E-08	2.04E-04	0.00E+00	0.00E+00	0.00E+00	4.94E-08	3.17E-04	0.00E+00	0.00E+00	3.17E-04
251	ALL	494926	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.65E-08	4.65E-08	4.65E-08	1.86E-04	0.00E+00	0.00E+00	0.00E+00	4.65E-08	2.98E-04	0.00E+00	0.00E+00	2.98E-04
252	ALL	494946	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.39E-08	4.39E-08	4.39E-08	1.71E-04	0.00E+00	0.00E+00	0.00E+00	4.39E-08	2.80E-04	0.00E+00	0.00E+00	2.80E-04
253	ALL	494966	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.15E-08	4.15E-08	4.15E-08	1.59E-04	0.00E+00	0.00E+00	0.00E+00	4.15E-08	2.64E-04	0.00E+00	0.00E+00	2.64E-04
254	ALL	494986	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.92E-08	3.92E-08	3.92E-08	1.48E-04	0.00E+00	0.00E+00	0.00E+00	3.92E-08	2.50E-04	0.00E+00	0.00E+00	2.50E-04
255	ALL	495006	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.71E-08	3.71E-08	3.71E-08	1.39E-04	0.00E+00	0.00E+00	0.00E+00	3.71E-08	2.36E-04	0.00E+00	0.00E+00	2.36E-04
256	ALL	495026	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.52E-08	3.52E-08	3.52E-08	1.30E-04	0.00E+00	0.00E+00	0.00E+00	3.52E-08	2.24E-04	0.00E+00	0.00E+00	2.24E-04
257	ALL	495046	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.35E-08	3.35E-08	3.35E-08	1.23E-04	0.00E+00	0.00E+00	0.00E+00	3.35E-08	2.12E-04	0.00E+00	0.00E+00	2.12E-04
258	ALL	495066	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.18E-08	3.18E-08	3.18E-08	1.15E-04	0.00E+00	0.00E+00	0.00E+00	3.18E-08	2.02E-04	0.00E+00	0.00E+00	2.02E-04
259	ALL	495086	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.03E-08	3.03E-08	3.03E-08	1.09E-04	0.00E+00	0.00E+00	0.00E+00	3.03E-08	1.92E-04	0.00E+00	0.00E+00	1.92E-04

260	ALL	495106	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.89E-08	2.89E-08	2.89E-08	1.03E-04	0.00E+00	0.00E+00	0.00E+00	2.89E-08	1.83E-04	0.00E+00	0.00E+00	1.83E-04
261	ALL	495126	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.76E-08	2.76E-08	2.76E-08	9.83E-05	0.00E+00	0.00E+00	0.00E+00	2.76E-08	1.74E-04	0.00E+00	0.00E+00	1.74E-04
262	ALL	495146	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.64E-08	2.64E-08	2.64E-08	9.36E-05	0.00E+00	0.00E+00	0.00E+00	2.64E-08	1.67E-04	0.00E+00	0.00E+00	1.67E-04
263	ALL	495166	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.52E-08	2.52E-08	2.52E-08	8.93E-05	0.00E+00	0.00E+00	0.00E+00	2.52E-08	1.59E-04	0.00E+00	0.00E+00	1.59E-04
264	ALL	495186	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.41E-08	2.41E-08	2.41E-08	8.51E-05	0.00E+00	0.00E+00	0.00E+00	2.41E-08	1.53E-04	0.00E+00	0.00E+00	1.53E-04
265	ALL	495206	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.31E-08	2.31E-08	2.31E-08	8.12E-05	0.00E+00	0.00E+00	0.00E+00	2.31E-08	1.46E-04	0.00E+00	0.00E+00	1.46E-04
266	ALL	495226	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.22E-08	2.22E-08	2.22E-08	7.75E-05	0.00E+00	0.00E+00	0.00E+00	2.22E-08	1.40E-04	0.00E+00	0.00E+00	1.40E-04
267	ALL	495246	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.13E-08	2.13E-08	2.13E-08	7.41E-05	0.00E+00	0.00E+00	0.00E+00	2.13E-08	1.34E-04	0.00E+00	0.00E+00	1.34E-04
268	ALL	495266	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.04E-08	2.04E-08	2.04E-08	7.10E-05	0.00E+00	0.00E+00	0.00E+00	2.04E-08	1.29E-04	0.00E+00	0.00E+00	1.29E-04
269	ALL	495286	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.96E-08	1.96E-08	1.96E-08	6.80E-05	0.00E+00	0.00E+00	0.00E+00	1.96E-08	1.24E-04	0.00E+00	0.00E+00	1.24E-04
270	ALL	495306	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.89E-08	1.89E-08	1.89E-08	6.50E-05	0.00E+00	0.00E+00	0.00E+00	1.89E-08	1.19E-04	0.00E+00	0.00E+00	1.19E-04
271	ALL	495326	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.81E-08	1.81E-08	1.81E-08	6.22E-05	0.00E+00	0.00E+00	0.00E+00	1.81E-08	1.14E-04	0.00E+00	0.00E+00	1.14E-04
272	ALL	495346	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.74E-08	1.74E-08	1.74E-08	5.94E-05	0.00E+00	0.00E+00	0.00E+00	1.74E-08	1.09E-04	0.00E+00	0.00E+00	1.09E-04
273	ALL	495366	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.68E-08	1.68E-08	1.68E-08	5.73E-05	0.00E+00	0.00E+00	0.00E+00	1.68E-08	1.06E-04	0.00E+00	0.00E+00	1.06E-04
274	ALL	495386	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.62E-08	1.62E-08	1.62E-08	5.53E-05	0.00E+00	0.00E+00	0.00E+00	1.62E-08	1.02E-04	0.00E+00	0.00E+00	1.02E-04
275	ALL	495406	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.56E-08	1.56E-08	1.56E-08	5.31E-05	0.00E+00	0.00E+00	0.00E+00	1.56E-08	9.81E-05	0.00E+00	0.00E+00	9.81E-05
276	ALL	495426	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.50E-08	1.50E-08	1.50E-08	5.09E-05	0.00E+00	0.00E+00	0.00E+00	1.50E-08	9.42E-05	0.00E+00	0.00E+00	9.42E-05
277	ALL	495446	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.44E-08	1.44E-08	1.44E-08	4.85E-05	0.00E+00	0.00E+00	0.00E+00	1.44E-08	9.02E-05	0.00E+00	0.00E+00	9.02E-05
278	ALL	495466	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.39E-08	1.39E-08	1.39E-08	4.71E-05	0.00E+00	0.00E+00	0.00E+00	1.39E-08	8.75E-05	0.00E+00	0.00E+00	8.75E-05
279	ALL	495486	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.35E-08	1.35E-08	1.35E-08	4.58E-05	0.00E+00	0.00E+00	0.00E+00	1.35E-08	8.49E-05	0.00E+00	0.00E+00	8.49E-05
280	ALL	495506	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.31E-08	1.31E-08	1.31E-08	4.43E-05	0.00E+00	0.00E+00	0.00E+00	1.31E-08	8.22E-05	0.00E+00	0.00E+00	8.22E-05
281	ALL	495526	3761516	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.27E-08	1.27E-08	1.27E-08	4.28E-05	0.00E+00	0.00E+00	0.00E+00	1.27E-08	7.94E-05	0.00E+00	0.00E+00	7.94E-05
282	ALL	494866	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	5.76E-08	5.76E-08	5.76E-08	2.44E-04	0.00E+00	0.00E+00	0.00E+00	5.76E-08	3.69E-04	0.00E+00	0.00E+00	3.69E-04
283	ALL	494886	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	5.39E-08	5.39E-08	5.39E-08	2.15E-04	0.00E+00	0.00E+00	0.00E+00	5.39E-08	3.45E-04	0.00E+00	0.00E+00	3.45E-04
284	ALL	494906	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	5.05E-08	5.05E-08	5.05E-08	1.95E-04	0.00E+00	0.00E+00	0.00E+00	5.05E-08	3.22E-04	0.00E+00	0.00E+00	3.22E-04
285	ALL	494926	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.74E-08	4.74E-08	4.74E-08	1.78E-04	0.00E+00	0.00E+00	0.00E+00	4.74E-08	3.02E-04	0.00E+00	0.00E+00	3.02E-04
286	ALL	494946	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.46E-08	4.46E-08	4.46E-08	1.64E-04	0.00E+00	0.00E+00	0.00E+00	4.46E-08	2.84E-04	0.00E+00	0.00E+00	2.84E-04
287	ALL	494966	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.21E-08	4.21E-08	4.21E-08	1.52E-04	0.00E+00	0.00E+00	0.00E+00	4.21E-08	2.68E-04	0.00E+00	0.00E+00	2.68E-04
288	ALL	494986	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.98E-08	3.98E-08	3.98E-08	1.42E-04	0.00E+00	0.00E+00	0.00E+00	3.98E-08	2.52E-04	0.00E+00	0.00E+00	2.52E-04
289	ALL	495006	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.76E-08	3.76E-08	3.76E-08	1.33E-04	0.00E+00	0.00E+00	0.00E+00	3.76E-08	2.39E-04	0.00E+00	0.00E+00	2.39E-04
290	ALL	495026	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.56E-08	3.56E-08	3.56E-08	1.25E-04	0.00E+00	0.00E+00	0.00E+00	3.56E-08	2.26E-04	0.00E+00	0.00E+00	2.26E-04
291	ALL	495046	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.38E-08	3.38E-08	3.38E-08	1.18E-04	0.00E+00	0.00E+00	0.00E+00	3.38E-08	2.14E-04	0.00E+00	0.00E+00	2.14E-04
292	ALL	495066	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.21E-08	3.21E-08	3.21E-08	1.11E-04	0.00E+00	0.00E+00	0.00E+00	3.21E-08	2.03E-04	0.00E+00	0.00E+00	2.03E-04
293	ALL	495086	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.05E-08	3.05E-08	3.05E-08	1.05E-04	0.00E+00	0.00E+00	0.00E+00	3.05E-08	1.93E-04	0.00E+00	0.00E+00	1.93E-04
294	ALL	495106	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.91E-08	2.91E-08	2.91E-08	9.95E-05	0.00E+00	0.00E+00	0.00E+00	2.91E-08	1.84E-04	0.00E+00	0.00E+00	1.84E-04
295	ALL	495126	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.77E-08	2.77E-08	2.77E-08	9.45E-05	0.00E+00	0.00E+00	0.00E+00	2.77E-08	1.75E-04	0.00E+00	0.00E+00	1.75E-04
296	ALL	495146	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.65E-08	2.65E-08	2.65E-08	8.99E-05	0.00E+00	0.00E+00	0.00E+00	2.65E-08	1.67E-04	0.00E+00	0.00E+00	1.67E-04
297	ALL	495166	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.53E-08	2.53E-08	2.53E-08	8.58E-05	0.00E+00	0.00E+00	0.00E+00	2.53E-08	1.60E-04	0.00E+00	0.00E+00	1.60E-04
298	ALL	495186	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.42E-08	2.42E-08	2.42E-08	8.19E-05	0.00E+00	0.00E+00	0.00E+00	2.42E-08	1.53E-04	0.00E+00	0.00E+00	1.53E-04
299	ALL	495206	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.32E-08	2.32E-08	2.32E-08	7.82E-05	0.00E+00	0.00E+00	0.00E+00	2.32E-08	1.46E-04	0.00E+00	0.00E+00	1.46E-04
300	ALL	495226	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.22E-08	2.22E-08	2.22E-08	7.47E-05	0.00E+00	0.00E+00	0.00E+00	2.22E-08	1.40E-04	0.00E+00	0.00E+00	1.40E-04
301	ALL	495246	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.13E-08	2.13E-08	2.13E-08	7.15E-05	0.00E+00	0.00E+00	0.00E+00	2.13E-08	1.34E-04	0.00E+00	0.00E+00	1.34E-04
302	ALL	495266	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.05E-08	2.05E-08	2.05E-08	6.85E-05	0.00E+00	0.00E+00	0.00E+00	2.05E-08	1.29E-04	0.00E+00	0.00E+00	1.29E-04
303	ALL	495286	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.96E-08	1.96E-08	1.96E-08	6.56E-05	0.00E+00	0.00E+00	0.00E+00	1.96E-08	1.24E-04	0.00E+00	0.00E+00	1.24E-04
304	ALL	495306	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.89E-08	1.89E-08	1.89E-08	6.29E-05	0.00E+00	0.00E+00	0.00E+00	1.89E-08	1.19E-04	0.00E+00	0.00E+00	1.19E-04
305	ALL	495326	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.81E-08	1.81E-08	1.81E-08	6.02E-05	0.00E+00	0.00E+00	0.00E+00	1.81E-08	1.14E-04	0.00E+00	0.00E+00	1.14E-04
306	ALL	495346	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.74E-08	1.74E-08	1.74E-08	5.78E-05	0.00E+00	0.00E+00	0.00E+00	1.74E-08	1.09E-04	0.00E+00	0.00E+00	1.09E-04
307	ALL	495366	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.68E-08	1.68E-08	1.68E-08	5.57E-05	0.00E+00	0.00E+00	0.00E+00	1.68E-08	1.05E-04	0.00E+00	0.00E+00	1.05E-04
308	ALL	495386	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.62E-08	1.62E-08	1.62E-08	5.36E-05	0.00E+00	0.00E+00	0.00E+00	1.62E-08	1.02E-04	0.00E+00	0.00E+00	1.02E-04
309	ALL	495406	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.56E-08	1.56E-08	1.56E-08	5.16E-05	0.00E+00	0.00E+00	0.00E+00	1.56E-08	9.78E-05	0.00E+00	0.00E+00	9.78E-05
310	ALL	495426	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.50E-08	1.50E-08	1.50E-08	4.94E-05	0.00E+00	0.00E+00	0.00E+00	1.50E-08	9.40E-05	0.00E+00	0.00E+00	9.40E-05
311	ALL	495446	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.43E-08	1.43E-08	1.43E-08	4.72E-05	0.00E+00	0.00E+00	0.00E+00	1.43E-08	9.00E-05	0.00E+00	0.00E+00	9.00E-05

312	ALL	495466	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.39E-08	1.39E-08	1.39E-08	4.57E-05	0.00E+00	0.00E+00	0.00E+00	1.39E-08	8.72E-05	0.00E+00	0.00E+00	8.72E-05
313	ALL	495486	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.35E-08	1.35E-08	1.35E-08	4.44E-05	0.00E+00	0.00E+00	0.00E+00	1.35E-08	8.45E-05	0.00E+00	0.00E+00	8.45E-05
314	ALL	495506	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.30E-08	1.30E-08	1.30E-08	4.30E-05	0.00E+00	0.00E+00	0.00E+00	1.30E-08	8.18E-05	0.00E+00	0.00E+00	8.18E-05
315	ALL	495526	3761536	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.26E-08	1.26E-08	1.26E-08	4.15E-05	0.00E+00	0.00E+00	0.00E+00	1.26E-08	7.90E-05	0.00E+00	0.00E+00	7.90E-05
316	ALL	494866	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	5.81E-08	5.81E-08	5.81E-08	2.32E-04	0.00E+00	0.00E+00	0.00E+00	5.81E-08	3.72E-04	0.00E+00	0.00E+00	3.72E-04
317	ALL	494886	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	5.43E-08	5.43E-08	5.43E-08	2.05E-04	0.00E+00	0.00E+00	0.00E+00	5.43E-08	3.46E-04	0.00E+00	0.00E+00	3.46E-04
318	ALL	494906	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	5.07E-08	5.07E-08	5.07E-08	1.86E-04	0.00E+00	0.00E+00	0.00E+00	5.07E-08	3.23E-04	0.00E+00	0.00E+00	3.23E-04
319	ALL	494926	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.76E-08	4.76E-08	4.76E-08	1.70E-04	0.00E+00	0.00E+00	0.00E+00	4.76E-08	3.03E-04	0.00E+00	0.00E+00	3.03E-04
320	ALL	494946	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.48E-08	4.48E-08	4.48E-08	1.57E-04	0.00E+00	0.00E+00	0.00E+00	4.48E-08	2.85E-04	0.00E+00	0.00E+00	2.85E-04
321	ALL	494966	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.22E-08	4.22E-08	4.22E-08	1.45E-04	0.00E+00	0.00E+00	0.00E+00	4.22E-08	2.68E-04	0.00E+00	0.00E+00	2.68E-04
322	ALL	494986	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.98E-08	3.98E-08	3.98E-08	1.36E-04	0.00E+00	0.00E+00	0.00E+00	3.98E-08	2.52E-04	0.00E+00	0.00E+00	2.52E-04
323	ALL	495006	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.76E-08	3.76E-08	3.76E-08	1.27E-04	0.00E+00	0.00E+00	0.00E+00	3.76E-08	2.38E-04	0.00E+00	0.00E+00	2.38E-04
324	ALL	495026	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.56E-08	3.56E-08	3.56E-08	1.20E-04	0.00E+00	0.00E+00	0.00E+00	3.56E-08	2.25E-04	0.00E+00	0.00E+00	2.25E-04
325	ALL	495046	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.37E-08	3.37E-08	3.37E-08	1.13E-04	0.00E+00	0.00E+00	0.00E+00	3.37E-08	2.13E-04	0.00E+00	0.00E+00	2.13E-04
326	ALL	495066	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.20E-08	3.20E-08	3.20E-08	1.06E-04	0.00E+00	0.00E+00	0.00E+00	3.20E-08	2.02E-04	0.00E+00	0.00E+00	2.02E-04
327	ALL	495086	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.04E-08	3.04E-08	3.04E-08	1.01E-04	0.00E+00	0.00E+00	0.00E+00	3.04E-08	1.92E-04	0.00E+00	0.00E+00	1.92E-04
328	ALL	495106	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.90E-08	2.90E-08	2.90E-08	9.54E-05	0.00E+00	0.00E+00	0.00E+00	2.90E-08	1.83E-04	0.00E+00	0.00E+00	1.83E-04
329	ALL	495126	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.76E-08	2.76E-08	2.76E-08	9.06E-05	0.00E+00	0.00E+00	0.00E+00	2.76E-08	1.74E-04	0.00E+00	0.00E+00	1.74E-04
330	ALL	495146	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.63E-08	2.63E-08	2.63E-08	8.62E-05	0.00E+00	0.00E+00	0.00E+00	2.63E-08	1.66E-04	0.00E+00	0.00E+00	1.66E-04
331	ALL	495166	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.52E-08	2.52E-08	2.52E-08	8.22E-05	0.00E+00	0.00E+00	0.00E+00	2.52E-08	1.58E-04	0.00E+00	0.00E+00	1.58E-04
332	ALL	495186	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.41E-08	2.41E-08	2.41E-08	7.85E-05	0.00E+00	0.00E+00	0.00E+00	2.41E-08	1.52E-04	0.00E+00	0.00E+00	1.52E-04
333	ALL	495206	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.30E-08	2.30E-08	2.30E-08	7.50E-05	0.00E+00	0.00E+00	0.00E+00	2.30E-08	1.45E-04	0.00E+00	0.00E+00	1.45E-04
334	ALL	495226	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.21E-08	2.21E-08	2.21E-08	7.17E-05	0.00E+00	0.00E+00	0.00E+00	2.21E-08	1.39E-04	0.00E+00	0.00E+00	1.39E-04
335	ALL	495246	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.11E-08	2.11E-08	2.11E-08	6.87E-05	0.00E+00	0.00E+00	0.00E+00	2.11E-08	1.33E-04	0.00E+00	0.00E+00	1.33E-04
336	ALL	495266	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.03E-08	2.03E-08	2.03E-08	6.59E-05	0.00E+00	0.00E+00	0.00E+00	2.03E-08	1.28E-04	0.00E+00	0.00E+00	1.28E-04
337	ALL	495286	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.95E-08	1.95E-08	1.95E-08	6.32E-05	0.00E+00	0.00E+00	0.00E+00	1.95E-08	1.23E-04	0.00E+00	0.00E+00	1.23E-04
338	ALL	495306	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.87E-08	1.87E-08	1.87E-08	6.07E-05	0.00E+00	0.00E+00	0.00E+00	1.87E-08	1.18E-04	0.00E+00	0.00E+00	1.18E-04
339	ALL	495326	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.80E-08	1.80E-08	1.80E-08	5.83E-05	0.00E+00	0.00E+00	0.00E+00	1.80E-08	1.13E-04	0.00E+00	0.00E+00	1.13E-04
340	ALL	495346	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.73E-08	1.73E-08	1.73E-08	5.60E-05	0.00E+00	0.00E+00	0.00E+00	1.73E-08	1.09E-04	0.00E+00	0.00E+00	1.09E-04
341	ALL	495366	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.67E-08	1.67E-08	1.67E-08	5.38E-05	0.00E+00	0.00E+00	0.00E+00	1.67E-08	1.05E-04	0.00E+00	0.00E+00	1.05E-04
342	ALL	495386	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.60E-08	1.60E-08	1.60E-08	5.18E-05	0.00E+00	0.00E+00	0.00E+00	1.60E-08	1.01E-04	0.00E+00	0.00E+00	1.01E-04
343	ALL	495406	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.55E-08	1.55E-08	1.55E-08	4.99E-05	0.00E+00	0.00E+00	0.00E+00	1.55E-08	9.70E-05	0.00E+00	0.00E+00	9.70E-05
344	ALL	495426	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.49E-08	1.49E-08	1.49E-08	4.80E-05	0.00E+00	0.00E+00	0.00E+00	1.49E-08	9.34E-05	0.00E+00	0.00E+00	9.34E-05
345	ALL	495446	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.43E-08	1.43E-08	1.43E-08	4.60E-05	0.00E+00	0.00E+00	0.00E+00	1.43E-08	8.96E-05	0.00E+00	0.00E+00	8.96E-05
346	ALL	495466	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.38E-08	1.38E-08	1.38E-08	4.44E-05	0.00E+00	0.00E+00	0.00E+00	1.38E-08	8.65E-05	0.00E+00	0.00E+00	8.65E-05
347	ALL	495486	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.33E-08	1.33E-08	1.33E-08	4.30E-05	0.00E+00	0.00E+00	0.00E+00	1.33E-08	8.38E-05	0.00E+00	0.00E+00	8.38E-05
348	ALL	495506	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.29E-08	1.29E-08	1.29E-08	4.17E-05	0.00E+00	0.00E+00	0.00E+00	1.29E-08	8.10E-05	0.00E+00	0.00E+00	8.10E-05
349	ALL	495526	3761556	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.25E-08	1.25E-08	1.25E-08	4.02E-05	0.00E+00	0.00E+00	0.00E+00	1.25E-08	7.82E-05	0.00E+00	0.00E+00	7.82E-05
350	ALL	494846	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	6.16E-08	6.16E-08	6.16E-08	2.62E-04	0.00E+00	0.00E+00	0.00E+00	6.16E-08	3.95E-04	0.00E+00	0.00E+00	3.95E-04
351	ALL	494866	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	5.74E-08	5.74E-08	5.74E-08	2.21E-04	0.00E+00	0.00E+00	0.00E+00	5.74E-08	3.67E-04	0.00E+00	0.00E+00	3.67E-04
352	ALL	494886	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	5.36E-08	5.36E-08	5.36E-08	1.95E-04	0.00E+00	0.00E+00	0.00E+00	5.36E-08	3.42E-04	0.00E+00	0.00E+00	3.42E-04
353	ALL	494906	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	5.01E-08	5.01E-08	5.01E-08	1.77E-04	0.00E+00	0.00E+00	0.00E+00	5.01E-08	3.20E-04	0.00E+00	0.00E+00	3.20E-04
354	ALL	494926	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.70E-08	4.70E-08	4.70E-08	1.62E-04	0.00E+00	0.00E+00	0.00E+00	4.70E-08	2.99E-04	0.00E+00	0.00E+00	2.99E-04
355	ALL	494946	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.42E-08	4.42E-08	4.42E-08	1.49E-04	0.00E+00	0.00E+00	0.00E+00	4.42E-08	2.81E-04	0.00E+00	0.00E+00	2.81E-04
356	ALL	494966	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.16E-08	4.16E-08	4.16E-08	1.39E-04	0.00E+00	0.00E+00	0.00E+00	4.16E-08	2.64E-04	0.00E+00	0.00E+00	2.64E-04
357	ALL	494986	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.93E-08	3.93E-08	3.93E-08	1.29E-04	0.00E+00	0.00E+00	0.00E+00	3.93E-08	2.49E-04	0.00E+00	0.00E+00	2.49E-04
358	ALL	495006	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.71E-08	3.71E-08	3.71E-08	1.22E-04	0.00E+00	0.00E+00	0.00E+00	3.71E-08	2.35E-04	0.00E+00	0.00E+00	2.35E-04
359	ALL	495026	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.51E-08	3.51E-08	3.51E-08	1.14E-04	0.00E+00	0.00E+00	0.00E+00	3.51E-08	2.22E-04	0.00E+00	0.00E+00	2.22E-04
360	ALL	495046	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.33E-08	3.33E-08	3.33E-08	1.08E-04	0.00E+00	0.00E+00	0.00E+00	3.33E-08	2.10E-04	0.00E+00	0.00E+00	2.10E-04
361	ALL	495066	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.16E-08	3.16E-08	3.16E-08	1.02E-04	0.00E+00	0.00E+00	0.00E+00	3.16E-08	1.99E-04	0.00E+00	0.00E+00	1.99E-04
362	ALL	495086	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.00E-08	3.00E-08	3.00E-08	9.64E-05	0.00E+00	0.00E+00	0.00E+00	3.00E-08	1.90E-04	0.00E+00	0.00E+00	1.90E-04
363	ALL	495106	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.86E-08	2.86E-08	2.86E-08	9.16E-05	0.00E+00	0.00E+00	0.00E+00	2.86E-08	1.80E-04	0.00E+00	0.00E+00	1.80E-04

364	ALL	495126	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.72E-08	2.72E-08	2.72E-08	8.69E-05	0.00E+00	0.00E+00	0.00E+00	2.72E-08	1.72E-04	0.00E+00	0.00E+00	1.72E-04
365	ALL	495146	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.60E-08	2.60E-08	2.60E-08	8.26E-05	0.00E+00	0.00E+00	0.00E+00	2.60E-08	1.64E-04	0.00E+00	0.00E+00	1.64E-04
366	ALL	495166	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.48E-08	2.48E-08	2.48E-08	7.87E-05	0.00E+00	0.00E+00	0.00E+00	2.48E-08	1.56E-04	0.00E+00	0.00E+00	1.56E-04
367	ALL	495186	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.37E-08	2.37E-08	2.37E-08	7.51E-05	0.00E+00	0.00E+00	0.00E+00	2.37E-08	1.49E-04	0.00E+00	0.00E+00	1.49E-04
368	ALL	495206	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.26E-08	2.26E-08	2.26E-08	7.17E-05	0.00E+00	0.00E+00	0.00E+00	2.26E-08	1.42E-04	0.00E+00	0.00E+00	1.42E-04
369	ALL	495226	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.17E-08	2.17E-08	2.17E-08	6.85E-05	0.00E+00	0.00E+00	0.00E+00	2.17E-08	1.36E-04	0.00E+00	0.00E+00	1.36E-04
370	ALL	495246	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.08E-08	2.08E-08	2.08E-08	6.56E-05	0.00E+00	0.00E+00	0.00E+00	2.08E-08	1.31E-04	0.00E+00	0.00E+00	1.31E-04
371	ALL	495266	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.99E-08	1.99E-08	1.99E-08	6.29E-05	0.00E+00	0.00E+00	0.00E+00	1.99E-08	1.25E-04	0.00E+00	0.00E+00	1.25E-04
372	ALL	495286	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.91E-08	1.91E-08	1.91E-08	6.03E-05	0.00E+00	0.00E+00	0.00E+00	1.91E-08	1.20E-04	0.00E+00	0.00E+00	1.20E-04
373	ALL	495306	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.84E-08	1.84E-08	1.84E-08	5.80E-05	0.00E+00	0.00E+00	0.00E+00	1.84E-08	1.15E-04	0.00E+00	0.00E+00	1.15E-04
374	ALL	495326	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.77E-08	1.77E-08	1.77E-08	5.58E-05	0.00E+00	0.00E+00	0.00E+00	1.77E-08	1.11E-04	0.00E+00	0.00E+00	1.11E-04
375	ALL	495346	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.70E-08	1.70E-08	1.70E-08	5.37E-05	0.00E+00	0.00E+00	0.00E+00	1.70E-08	1.07E-04	0.00E+00	0.00E+00	1.07E-04
376	ALL	495366	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.64E-08	1.64E-08	1.64E-08	5.17E-05	0.00E+00	0.00E+00	0.00E+00	1.64E-08	1.03E-04	0.00E+00	0.00E+00	1.03E-04
377	ALL	495386	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.58E-08	1.58E-08	1.58E-08	4.98E-05	0.00E+00	0.00E+00	0.00E+00	1.58E-08	9.91E-05	0.00E+00	0.00E+00	9.91E-05
378	ALL	495406	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.52E-08	1.52E-08	1.52E-08	4.81E-05	0.00E+00	0.00E+00	0.00E+00	1.52E-08	9.55E-05	0.00E+00	0.00E+00	9.55E-05
379	ALL	495426	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.47E-08	1.47E-08	1.47E-08	4.64E-05	0.00E+00	0.00E+00	0.00E+00	1.47E-08	9.21E-05	0.00E+00	0.00E+00	9.21E-05
380	ALL	495446	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.41E-08	1.41E-08	1.41E-08	4.46E-05	0.00E+00	0.00E+00	0.00E+00	1.41E-08	8.86E-05	0.00E+00	0.00E+00	8.86E-05
381	ALL	495466	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.36E-08	1.36E-08	1.36E-08	4.30E-05	0.00E+00	0.00E+00	0.00E+00	1.36E-08	8.55E-05	0.00E+00	0.00E+00	8.55E-05
382	ALL	495486	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.32E-08	1.32E-08	1.32E-08	4.17E-05	0.00E+00	0.00E+00	0.00E+00	1.32E-08	8.27E-05	0.00E+00	0.00E+00	8.27E-05
383	ALL	495506	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.27E-08	1.27E-08	1.27E-08	4.03E-05	0.00E+00	0.00E+00	0.00E+00	1.27E-08	7.99E-05	0.00E+00	0.00E+00	7.99E-05
384	ALL	495526	3761576	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.23E-08	1.23E-08	1.23E-08	3.88E-05	0.00E+00	0.00E+00	0.00E+00	1.23E-08	7.70E-05	0.00E+00	0.00E+00	7.70E-05
385	ALL	494846	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	5.96E-08	5.96E-08	5.96E-08	2.47E-04	0.00E+00	0.00E+00	0.00E+00	5.96E-08	3.83E-04	0.00E+00	0.00E+00	3.83E-04
386	ALL	494866	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	5.56E-08	5.56E-08	5.56E-08	2.09E-04	0.00E+00	0.00E+00	0.00E+00	5.56E-08	3.57E-04	0.00E+00	0.00E+00	3.57E-04
387	ALL	494886	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	5.19E-08	5.19E-08	5.19E-08	1.85E-04	0.00E+00	0.00E+00	0.00E+00	5.19E-08	3.33E-04	0.00E+00	0.00E+00	3.33E-04
388	ALL	494906	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.86E-08	4.86E-08	4.86E-08	1.68E-04	0.00E+00	0.00E+00	0.00E+00	4.86E-08	3.11E-04	0.00E+00	0.00E+00	3.11E-04
389	ALL	494926	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.56E-08	4.56E-08	4.56E-08	1.54E-04	0.00E+00	0.00E+00	0.00E+00	4.56E-08	2.91E-04	0.00E+00	0.00E+00	2.91E-04
390	ALL	494946	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.30E-08	4.30E-08	4.30E-08	1.42E-04	0.00E+00	0.00E+00	0.00E+00	4.30E-08	2.74E-04	0.00E+00	0.00E+00	2.74E-04
391	ALL	494966	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.05E-08	4.05E-08	4.05E-08	1.32E-04	0.00E+00	0.00E+00	0.00E+00	4.05E-08	2.57E-04	0.00E+00	0.00E+00	2.57E-04
392	ALL	494986	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.82E-08	3.82E-08	3.82E-08	1.23E-04	0.00E+00	0.00E+00	0.00E+00	3.82E-08	2.43E-04	0.00E+00	0.00E+00	2.43E-04
393	ALL	495006	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.61E-08	3.61E-08	3.61E-08	1.16E-04	0.00E+00	0.00E+00	0.00E+00	3.61E-08	2.29E-04	0.00E+00	0.00E+00	2.29E-04
394	ALL	495026	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.42E-08	3.42E-08	3.42E-08	1.09E-04	0.00E+00	0.00E+00	0.00E+00	3.42E-08	2.17E-04	0.00E+00	0.00E+00	2.17E-04
395	ALL	495046	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.24E-08	3.24E-08	3.24E-08	1.03E-04	0.00E+00	0.00E+00	0.00E+00	3.24E-08	2.05E-04	0.00E+00	0.00E+00	2.05E-04
396	ALL	495066	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.08E-08	3.08E-08	3.08E-08	9.70E-05	0.00E+00	0.00E+00	0.00E+00	3.08E-08	1.95E-04	0.00E+00	0.00E+00	1.95E-04
397	ALL	495086	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.93E-08	2.93E-08	2.93E-08	9.23E-05	0.00E+00	0.00E+00	0.00E+00	2.93E-08	1.85E-04	0.00E+00	0.00E+00	1.85E-04
398	ALL	495106	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.79E-08	2.79E-08	2.79E-08	8.77E-05	0.00E+00	0.00E+00	0.00E+00	2.79E-08	1.76E-04	0.00E+00	0.00E+00	1.76E-04
399	ALL	495126	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.66E-08	2.66E-08	2.66E-08	8.33E-05	0.00E+00	0.00E+00	0.00E+00	2.66E-08	1.68E-04	0.00E+00	0.00E+00	1.68E-04
400	ALL	495146	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.53E-08	2.53E-08	2.53E-08	7.92E-05	0.00E+00	0.00E+00	0.00E+00	2.53E-08	1.60E-04	0.00E+00	0.00E+00	1.60E-04
401	ALL	495166	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.42E-08	2.42E-08	2.42E-08	7.54E-05	0.00E+00	0.00E+00	0.00E+00	2.42E-08	1.53E-04	0.00E+00	0.00E+00	1.53E-04
402	ALL	495186	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.31E-08	2.31E-08	2.31E-08	7.19E-05	0.00E+00	0.00E+00	0.00E+00	2.31E-08	1.46E-04	0.00E+00	0.00E+00	1.46E-04
403	ALL	495206	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.21E-08	2.21E-08	2.21E-08	6.86E-05	0.00E+00	0.00E+00	0.00E+00	2.21E-08	1.39E-04	0.00E+00	0.00E+00	1.39E-04
404	ALL	495226	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.11E-08	2.11E-08	2.11E-08	6.56E-05	0.00E+00	0.00E+00	0.00E+00	2.11E-08	1.33E-04	0.00E+00	0.00E+00	1.33E-04
405	ALL	495246	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.02E-08	2.02E-08	2.02E-08	6.28E-05	0.00E+00	0.00E+00	0.00E+00	2.02E-08	1.28E-04	0.00E+00	0.00E+00	1.28E-04
406	ALL	495266	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.94E-08	1.94E-08	1.94E-08	6.01E-05	0.00E+00	0.00E+00	0.00E+00	1.94E-08	1.22E-04	0.00E+00	0.00E+00	1.22E-04
407	ALL	495286	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.86E-08	1.86E-08	1.86E-08	5.77E-05	0.00E+00	0.00E+00	0.00E+00	1.86E-08	1.17E-04	0.00E+00	0.00E+00	1.17E-04
408	ALL	495306	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.79E-08	1.79E-08	1.79E-08	5.56E-05	0.00E+00	0.00E+00	0.00E+00	1.79E-08	1.13E-04	0.00E+00	0.00E+00	1.13E-04
409	ALL	495326	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.72E-08	1.72E-08	1.72E-08	5.35E-05	0.00E+00	0.00E+00	0.00E+00	1.72E-08	1.09E-04	0.00E+00	0.00E+00	1.09E-04
410	ALL	495346	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.66E-08	1.66E-08	1.66E-08	5.16E-05	0.00E+00	0.00E+00	0.00E+00	1.66E-08	1.04E-04	0.00E+00	0.00E+00	1.04E-04
411	ALL	495366	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.60E-08	1.60E-08	1.60E-08	4.97E-05	0.00E+00	0.00E+00	0.00E+00	1.60E-08	1.01E-04	0.00E+00	0.00E+00	1.01E-04
412	ALL	495386	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.54E-08	1.54E-08	1.54E-08	4.79E-05	0.00E+00	0.00E+00	0.00E+00	1.54E-08	9.69E-05	0.00E+00	0.00E+00	9.69E-05
413	ALL	495406	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.49E-08	1.49E-08	1.49E-08	4.62E-05	0.00E+00	0.00E+00	0.00E+00	1.49E-08	9.34E-05	0.00E+00	0.00E+00	9.34E-05
414	ALL	495426	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.43E-08	1.43E-08	1.43E-08	4.47E-05	0.00E+00	0.00E+00	0.00E+00	1.43E-08	9.02E-05	0.00E+00	0.00E+00	9.02E-05
415	ALL	495446	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.38E-08	1.38E-08	1.38E-08	4.31E-05	0.00E+00	0.00E+00	0.00E+00	1.38E-08	8.70E-05	0.00E+00	0.00E+00	8.70E-05

416	ALL	495466	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.34E-08	1.34E-08	1.34E-08	4.16E-05	0.00E+00	0.00E+00	0.00E+00	1.34E-08	8.40E-05	0.00E+00	0.00E+00	8.40E-05
417	ALL	495486	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.29E-08	1.29E-08	1.29E-08	4.03E-05	0.00E+00	0.00E+00	0.00E+00	1.29E-08	8.11E-05	0.00E+00	0.00E+00	8.11E-05
418	ALL	495506	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.25E-08	1.25E-08	1.25E-08	3.89E-05	0.00E+00	0.00E+00	0.00E+00	1.25E-08	7.83E-05	0.00E+00	0.00E+00	7.83E-05
419	ALL	495526	3761596	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.20E-08	1.20E-08	1.20E-08	3.75E-05	0.00E+00	0.00E+00	0.00E+00	1.20E-08	7.55E-05	0.00E+00	0.00E+00	7.55E-05
420	ALL	494846	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	5.65E-08	5.65E-08	5.65E-08	2.33E-04	0.00E+00	0.00E+00	0.00E+00	5.65E-08	3.66E-04	0.00E+00	0.00E+00	3.66E-04
421	ALL	494866	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	5.28E-08	5.28E-08	5.28E-08	1.97E-04	0.00E+00	0.00E+00	0.00E+00	5.28E-08	3.41E-04	0.00E+00	0.00E+00	3.41E-04
422	ALL	494886	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.95E-08	4.95E-08	4.95E-08	1.75E-04	0.00E+00	0.00E+00	0.00E+00	4.95E-08	3.18E-04	0.00E+00	0.00E+00	3.18E-04
423	ALL	494906	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.64E-08	4.64E-08	4.64E-08	1.59E-04	0.00E+00	0.00E+00	0.00E+00	4.64E-08	2.98E-04	0.00E+00	0.00E+00	2.98E-04
424	ALL	494926	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.37E-08	4.37E-08	4.37E-08	1.46E-04	0.00E+00	0.00E+00	0.00E+00	4.37E-08	2.80E-04	0.00E+00	0.00E+00	2.80E-04
425	ALL	494946	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.11E-08	4.11E-08	4.11E-08	1.35E-04	0.00E+00	0.00E+00	0.00E+00	4.11E-08	2.63E-04	0.00E+00	0.00E+00	2.63E-04
426	ALL	494966	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.88E-08	3.88E-08	3.88E-08	1.25E-04	0.00E+00	0.00E+00	0.00E+00	3.88E-08	2.48E-04	0.00E+00	0.00E+00	2.48E-04
427	ALL	494986	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.67E-08	3.67E-08	3.67E-08	1.17E-04	0.00E+00	0.00E+00	0.00E+00	3.67E-08	2.34E-04	0.00E+00	0.00E+00	2.34E-04
428	ALL	495006	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.47E-08	3.47E-08	3.47E-08	1.10E-04	0.00E+00	0.00E+00	0.00E+00	3.47E-08	2.21E-04	0.00E+00	0.00E+00	2.21E-04
429	ALL	495026	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.29E-08	3.29E-08	3.29E-08	1.04E-04	0.00E+00	0.00E+00	0.00E+00	3.29E-08	2.09E-04	0.00E+00	0.00E+00	2.09E-04
430	ALL	495046	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.12E-08	3.12E-08	3.12E-08	9.79E-05	0.00E+00	0.00E+00	0.00E+00	3.12E-08	1.98E-04	0.00E+00	0.00E+00	1.98E-04
431	ALL	495066	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.97E-08	2.97E-08	2.97E-08	9.26E-05	0.00E+00	0.00E+00	0.00E+00	2.97E-08	1.88E-04	0.00E+00	0.00E+00	1.88E-04
432	ALL	495086	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.83E-08	2.83E-08	2.83E-08	8.82E-05	0.00E+00	0.00E+00	0.00E+00	2.83E-08	1.79E-04	0.00E+00	0.00E+00	1.79E-04
433	ALL	495106	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.70E-08	2.70E-08	2.70E-08	8.38E-05	0.00E+00	0.00E+00	0.00E+00	2.70E-08	1.71E-04	0.00E+00	0.00E+00	1.71E-04
434	ALL	495126	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.57E-08	2.57E-08	2.57E-08	7.97E-05	0.00E+00	0.00E+00	0.00E+00	2.57E-08	1.63E-04	0.00E+00	0.00E+00	1.63E-04
435	ALL	495146	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.45E-08	2.45E-08	2.45E-08	7.58E-05	0.00E+00	0.00E+00	0.00E+00	2.45E-08	1.55E-04	0.00E+00	0.00E+00	1.55E-04
436	ALL	495166	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.34E-08	2.34E-08	2.34E-08	7.22E-05	0.00E+00	0.00E+00	0.00E+00	2.34E-08	1.48E-04	0.00E+00	0.00E+00	1.48E-04
437	ALL	495186	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.24E-08	2.24E-08	2.24E-08	6.90E-05	0.00E+00	0.00E+00	0.00E+00	2.24E-08	1.42E-04	0.00E+00	0.00E+00	1.42E-04
438	ALL	495206	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.14E-08	2.14E-08	2.14E-08	6.59E-05	0.00E+00	0.00E+00	0.00E+00	2.14E-08	1.35E-04	0.00E+00	0.00E+00	1.35E-04
439	ALL	495226	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.05E-08	2.05E-08	2.05E-08	6.30E-05	0.00E+00	0.00E+00	0.00E+00	2.05E-08	1.30E-04	0.00E+00	0.00E+00	1.30E-04
440	ALL	495246	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.97E-08	1.97E-08	1.97E-08	6.04E-05	0.00E+00	0.00E+00	0.00E+00	1.97E-08	1.24E-04	0.00E+00	0.00E+00	1.24E-04
441	ALL	495266	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.89E-08	1.89E-08	1.89E-08	5.78E-05	0.00E+00	0.00E+00	0.00E+00	1.89E-08	1.19E-04	0.00E+00	0.00E+00	1.19E-04
442	ALL	495286	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.81E-08	1.81E-08	1.81E-08	5.55E-05	0.00E+00	0.00E+00	0.00E+00	1.81E-08	1.14E-04	0.00E+00	0.00E+00	1.14E-04
443	ALL	495306	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.74E-08	1.74E-08	1.74E-08	5.34E-05	0.00E+00	0.00E+00	0.00E+00	1.74E-08	1.10E-04	0.00E+00	0.00E+00	1.10E-04
444	ALL	495326	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.68E-08	1.68E-08	1.68E-08	5.14E-05	0.00E+00	0.00E+00	0.00E+00	1.68E-08	1.06E-04	0.00E+00	0.00E+00	1.06E-04
445	ALL	495346	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.62E-08	1.62E-08	1.62E-08	4.95E-05	0.00E+00	0.00E+00	0.00E+00	1.62E-08	1.02E-04	0.00E+00	0.00E+00	1.02E-04
446	ALL	495366	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.56E-08	1.56E-08	1.56E-08	4.77E-05	0.00E+00	0.00E+00	0.00E+00	1.56E-08	9.80E-05	0.00E+00	0.00E+00	9.80E-05
447	ALL	495386	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.50E-08	1.50E-08	1.50E-08	4.60E-05	0.00E+00	0.00E+00	0.00E+00	1.50E-08	9.43E-05	0.00E+00	0.00E+00	9.43E-05
448	ALL	495406	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.44E-08	1.44E-08	1.44E-08	4.43E-05	0.00E+00	0.00E+00	0.00E+00	1.44E-08	9.09E-05	0.00E+00	0.00E+00	9.09E-05
449	ALL	495426	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.39E-08	1.39E-08	1.39E-08	4.28E-05	0.00E+00	0.00E+00	0.00E+00	1.39E-08	8.77E-05	0.00E+00	0.00E+00	8.77E-05
450	ALL	495446	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.35E-08	1.35E-08	1.35E-08	4.15E-05	0.00E+00	0.00E+00	0.00E+00	1.35E-08	8.49E-05	0.00E+00	0.00E+00	8.49E-05
451	ALL	495466	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.30E-08	1.30E-08	1.30E-08	4.01E-05	0.00E+00	0.00E+00	0.00E+00	1.30E-08	8.20E-05	0.00E+00	0.00E+00	8.20E-05
452	ALL	495486	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.26E-08	1.26E-08	1.26E-08	3.88E-05	0.00E+00	0.00E+00	0.00E+00	1.26E-08	7.93E-05	0.00E+00	0.00E+00	7.93E-05
453	ALL	495506	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.22E-08	1.22E-08	1.22E-08	3.75E-05	0.00E+00	0.00E+00	0.00E+00	1.22E-08	7.65E-05	0.00E+00	0.00E+00	7.65E-05
454	ALL	495526	3761616	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.17E-08	1.17E-08	1.17E-08	3.62E-05	0.00E+00	0.00E+00	0.00E+00	1.17E-08	7.38E-05	0.00E+00	0.00E+00	7.38E-05
455	ALL	494846	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	5.28E-08	5.28E-08	5.28E-08	2.19E-04	0.00E+00	0.00E+00	0.00E+00	5.28E-08	3.44E-04	0.00E+00	0.00E+00	3.44E-04
456	ALL	494866	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.95E-08	4.95E-08	4.95E-08	1.86E-04	0.00E+00	0.00E+00	0.00E+00	4.95E-08	3.21E-04	0.00E+00	0.00E+00	3.21E-04
457	ALL	494886	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.64E-08	4.64E-08	4.64E-08	1.65E-04	0.00E+00	0.00E+00	0.00E+00	4.64E-08	3.01E-04	0.00E+00	0.00E+00	3.01E-04
458	ALL	494906	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.37E-08	4.37E-08	4.37E-08	1.50E-04	0.00E+00	0.00E+00	0.00E+00	4.37E-08	2.82E-04	0.00E+00	0.00E+00	2.82E-04
459	ALL	494926	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.12E-08	4.12E-08	4.12E-08	1.38E-04	0.00E+00	0.00E+00	0.00E+00	4.12E-08	2.66E-04	0.00E+00	0.00E+00	2.66E-04
460	ALL	494946	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.89E-08	3.89E-08	3.89E-08	1.28E-04	0.00E+00	0.00E+00	0.00E+00	3.89E-08	2.50E-04	0.00E+00	0.00E+00	2.50E-04
461	ALL	494966	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.67E-08	3.67E-08	3.67E-08	1.19E-04	0.00E+00	0.00E+00	0.00E+00	3.67E-08	2.36E-04	0.00E+00	0.00E+00	2.36E-04
462	ALL	494986	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.48E-08	3.48E-08	3.48E-08	1.11E-04	0.00E+00	0.00E+00	0.00E+00	3.48E-08	2.23E-04	0.00E+00	0.00E+00	2.23E-04
463	ALL	495006	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.30E-08	3.30E-08	3.30E-08	1.05E-04	0.00E+00	0.00E+00	0.00E+00	3.30E-08	2.11E-04	0.00E+00	0.00E+00	2.11E-04
464	ALL	495026	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.13E-08	3.13E-08	3.13E-08	9.85E-05	0.00E+00	0.00E+00	0.00E+00	3.13E-08	2.00E-04	0.00E+00	0.00E+00	2.00E-04
465	ALL	495046	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.98E-08	2.98E-08	2.98E-08	9.33E-05	0.00E+00	0.00E+00	0.00E+00	2.98E-08	1.90E-04	0.00E+00	0.00E+00	1.90E-04
466	ALL	495066	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.83E-08	2.83E-08	2.83E-08	8.83E-05	0.00E+00	0.00E+00	0.00E+00	2.83E-08	1.81E-04	0.00E+00	0.00E+00	1.81E-04
467	ALL	495086	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.71E-08	2.71E-08	2.71E-08	8.41E-05	0.00E+00	0.00E+00	0.00E+00	2.71E-08	1.72E-04	0.00E+00	0.00E+00	1.72E-04

468	ALL	495106	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.58E-08	2.58E-08	2.58E-08	8.00E-05	0.00E+00	0.00E+00	0.00E+00	2.58E-08	1.64E-04	0.00E+00	0.00E+00	1.64E-04
469	ALL	495126	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.46E-08	2.46E-08	2.46E-08	7.60E-05	0.00E+00	0.00E+00	0.00E+00	2.46E-08	1.56E-04	0.00E+00	0.00E+00	1.56E-04
470	ALL	495146	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.35E-08	2.35E-08	2.35E-08	7.23E-05	0.00E+00	0.00E+00	0.00E+00	2.35E-08	1.49E-04	0.00E+00	0.00E+00	1.49E-04
471	ALL	495166	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.25E-08	2.25E-08	2.25E-08	6.89E-05	0.00E+00	0.00E+00	0.00E+00	2.25E-08	1.43E-04	0.00E+00	0.00E+00	1.43E-04
472	ALL	495186	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.15E-08	2.15E-08	2.15E-08	6.58E-05	0.00E+00	0.00E+00	0.00E+00	2.15E-08	1.36E-04	0.00E+00	0.00E+00	1.36E-04
473	ALL	495206	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.06E-08	2.06E-08	2.06E-08	6.30E-05	0.00E+00	0.00E+00	0.00E+00	2.06E-08	1.31E-04	0.00E+00	0.00E+00	1.31E-04
474	ALL	495226	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.98E-08	1.98E-08	1.98E-08	6.03E-05	0.00E+00	0.00E+00	0.00E+00	1.98E-08	1.25E-04	0.00E+00	0.00E+00	1.25E-04
475	ALL	495246	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.90E-08	1.90E-08	1.90E-08	5.78E-05	0.00E+00	0.00E+00	0.00E+00	1.90E-08	1.20E-04	0.00E+00	0.00E+00	1.20E-04
476	ALL	495266	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.82E-08	1.82E-08	1.82E-08	5.55E-05	0.00E+00	0.00E+00	0.00E+00	1.82E-08	1.15E-04	0.00E+00	0.00E+00	1.15E-04
477	ALL	495286	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.75E-08	1.75E-08	1.75E-08	5.33E-05	0.00E+00	0.00E+00	0.00E+00	1.75E-08	1.11E-04	0.00E+00	0.00E+00	1.11E-04
478	ALL	495306	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.69E-08	1.69E-08	1.69E-08	5.13E-05	0.00E+00	0.00E+00	0.00E+00	1.69E-08	1.06E-04	0.00E+00	0.00E+00	1.06E-04
479	ALL	495326	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.62E-08	1.62E-08	1.62E-08	4.94E-05	0.00E+00	0.00E+00	0.00E+00	1.62E-08	1.02E-04	0.00E+00	0.00E+00	1.02E-04
480	ALL	495346	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.57E-08	1.57E-08	1.57E-08	4.76E-05	0.00E+00	0.00E+00	0.00E+00	1.57E-08	9.87E-05	0.00E+00	0.00E+00	9.87E-05
481	ALL	495366	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.51E-08	1.51E-08	1.51E-08	4.60E-05	0.00E+00	0.00E+00	0.00E+00	1.51E-08	9.52E-05	0.00E+00	0.00E+00	9.52E-05
482	ALL	495386	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.46E-08	1.46E-08	1.46E-08	4.43E-05	0.00E+00	0.00E+00	0.00E+00	1.46E-08	9.18E-05	0.00E+00	0.00E+00	9.18E-05
483	ALL	495406	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.40E-08	1.40E-08	1.40E-08	4.27E-05	0.00E+00	0.00E+00	0.00E+00	1.40E-08	8.84E-05	0.00E+00	0.00E+00	8.84E-05
484	ALL	495426	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.35E-08	1.35E-08	1.35E-08	4.11E-05	0.00E+00	0.00E+00	0.00E+00	1.35E-08	8.51E-05	0.00E+00	0.00E+00	8.51E-05
485	ALL	495446	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.31E-08	1.31E-08	1.31E-08	3.97E-05	0.00E+00	0.00E+00	0.00E+00	1.31E-08	8.23E-05	0.00E+00	0.00E+00	8.23E-05
486	ALL	495466	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.26E-08	1.26E-08	1.26E-08	3.85E-05	0.00E+00	0.00E+00	0.00E+00	1.26E-08	7.96E-05	0.00E+00	0.00E+00	7.96E-05
487	ALL	495486	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.22E-08	1.22E-08	1.22E-08	3.73E-05	0.00E+00	0.00E+00	0.00E+00	1.22E-08	7.70E-05	0.00E+00	0.00E+00	7.70E-05
488	ALL	495506	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.18E-08	1.18E-08	1.18E-08	3.61E-05	0.00E+00	0.00E+00	0.00E+00	1.18E-08	7.44E-05	0.00E+00	0.00E+00	7.44E-05
489	ALL	495526	3761636	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.14E-08	1.14E-08	1.14E-08	3.48E-05	0.00E+00	0.00E+00	0.00E+00	1.14E-08	7.18E-05	0.00E+00	0.00E+00	7.18E-05
490	ALL	494846	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.89E-08	4.89E-08	4.89E-08	2.06E-04	0.00E+00	0.00E+00	0.00E+00	4.89E-08	3.20E-04	0.00E+00	0.00E+00	3.20E-04
491	ALL	494866	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.59E-08	4.59E-08	4.59E-08	1.75E-04	0.00E+00	0.00E+00	0.00E+00	4.59E-08	3.00E-04	0.00E+00	0.00E+00	3.00E-04
492	ALL	494886	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.32E-08	4.32E-08	4.32E-08	1.55E-04	0.00E+00	0.00E+00	0.00E+00	4.32E-08	2.81E-04	0.00E+00	0.00E+00	2.81E-04
493	ALL	494906	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.08E-08	4.08E-08	4.08E-08	1.42E-04	0.00E+00	0.00E+00	0.00E+00	4.08E-08	2.65E-04	0.00E+00	0.00E+00	2.65E-04
494	ALL	494926	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.85E-08	3.85E-08	3.85E-08	1.30E-04	0.00E+00	0.00E+00	0.00E+00	3.85E-08	2.50E-04	0.00E+00	0.00E+00	2.50E-04
495	ALL	494946	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.64E-08	3.64E-08	3.64E-08	1.21E-04	0.00E+00	0.00E+00	0.00E+00	3.64E-08	2.35E-04	0.00E+00	0.00E+00	2.35E-04
496	ALL	494966	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.44E-08	3.44E-08	3.44E-08	1.12E-04	0.00E+00	0.00E+00	0.00E+00	3.44E-08	2.22E-04	0.00E+00	0.00E+00	2.22E-04
497	ALL	494986	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.27E-08	3.27E-08	3.27E-08	1.05E-04	0.00E+00	0.00E+00	0.00E+00	3.27E-08	2.11E-04	0.00E+00	0.00E+00	2.11E-04
498	ALL	495006	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.11E-08	3.11E-08	3.11E-08	9.92E-05	0.00E+00	0.00E+00	0.00E+00	3.11E-08	2.00E-04	0.00E+00	0.00E+00	2.00E-04
499	ALL	495026	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.96E-08	2.96E-08	2.96E-08	9.36E-05	0.00E+00	0.00E+00	0.00E+00	2.96E-08	1.90E-04	0.00E+00	0.00E+00	1.90E-04
500	ALL	495046	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.82E-08	2.82E-08	2.82E-08	8.87E-05	0.00E+00	0.00E+00	0.00E+00	2.82E-08	1.80E-04	0.00E+00	0.00E+00	1.80E-04
501	ALL	495066	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.68E-08	2.68E-08	2.68E-08	8.40E-05	0.00E+00	0.00E+00	0.00E+00	2.68E-08	1.72E-04	0.00E+00	0.00E+00	1.72E-04
502	ALL	495086	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.57E-08	2.57E-08	2.57E-08	8.01E-05	0.00E+00	0.00E+00	0.00E+00	2.57E-08	1.64E-04	0.00E+00	0.00E+00	1.64E-04
503	ALL	495106	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.45E-08	2.45E-08	2.45E-08	7.62E-05	0.00E+00	0.00E+00	0.00E+00	2.45E-08	1.57E-04	0.00E+00	0.00E+00	1.57E-04
504	ALL	495126	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.34E-08	2.34E-08	2.34E-08	7.24E-05	0.00E+00	0.00E+00	0.00E+00	2.34E-08	1.49E-04	0.00E+00	0.00E+00	1.49E-04
505	ALL	495146	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.24E-08	2.24E-08	2.24E-08	6.89E-05	0.00E+00	0.00E+00	0.00E+00	2.24E-08	1.43E-04	0.00E+00	0.00E+00	1.43E-04
506	ALL	495166	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.14E-08	2.14E-08	2.14E-08	6.58E-05	0.00E+00	0.00E+00	0.00E+00	2.14E-08	1.36E-04	0.00E+00	0.00E+00	1.36E-04
507	ALL	495186	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.06E-08	2.06E-08	2.06E-08	6.28E-05	0.00E+00	0.00E+00	0.00E+00	2.06E-08	1.31E-04	0.00E+00	0.00E+00	1.31E-04
508	ALL	495206	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.97E-08	1.97E-08	1.97E-08	6.02E-05	0.00E+00	0.00E+00	0.00E+00	1.97E-08	1.25E-04	0.00E+00	0.00E+00	1.25E-04
509	ALL	495226	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.89E-08	1.89E-08	1.89E-08	5.77E-05	0.00E+00	0.00E+00	0.00E+00	1.89E-08	1.20E-04	0.00E+00	0.00E+00	1.20E-04
510	ALL	495246	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.82E-08	1.82E-08	1.82E-08	5.54E-05	0.00E+00	0.00E+00	0.00E+00	1.82E-08	1.15E-04	0.00E+00	0.00E+00	1.15E-04
511	ALL	495266	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.75E-08	1.75E-08	1.75E-08	5.32E-05	0.00E+00	0.00E+00	0.00E+00	1.75E-08	1.11E-04	0.00E+00	0.00E+00	1.11E-04
512	ALL	495286	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.68E-08	1.68E-08	1.68E-08	5.11E-05	0.00E+00	0.00E+00	0.00E+00	1.68E-08	1.07E-04	0.00E+00	0.00E+00	1.07E-04
513	ALL	495306	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.62E-08	1.62E-08	1.62E-08	4.92E-05	0.00E+00	0.00E+00	0.00E+00	1.62E-08	1.03E-04	0.00E+00	0.00E+00	1.03E-04
514	ALL	495326	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.56E-08	1.56E-08	1.56E-08	4.74E-05	0.00E+00	0.00E+00	0.00E+00	1.56E-08	9.88E-05	0.00E+00	0.00E+00	9.88E-05
515	ALL	495346	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.51E-08	1.51E-08	1.51E-08	4.57E-05	0.00E+00	0.00E+00	0.00E+00	1.51E-08	9.53E-05	0.00E+00	0.00E+00	9.53E-05
516	ALL	495366	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.46E-08	1.46E-08	1.46E-08	4.42E-05	0.00E+00	0.00E+00	0.00E+00	1.46E-08	9.20E-05	0.00E+00	0.00E+00	9.20E-05
517	ALL	495386	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.41E-08	1.41E-08	1.41E-08	4.27E-05	0.00E+00	0.00E+00	0.00E+00	1.41E-08	8.88E-05	0.00E+00	0.00E+00	8.88E-05
518	ALL	495406	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.36E-08	1.36E-08	1.36E-08	4.11E-05	0.00E+00	0.00E+00	0.00E+00	1.36E-08	8.56E-05	0.00E+00	0.00E+00	8.56E-05
519	ALL	495426	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.31E-08	1.31E-08	1.31E-08	3.95E-05	0.00E+00	0.00E+00	0.00E+00	1.31E-08	8.24E-05	0.00E+00	0.00E+00	8.24E-05

520	ALL	495446	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.26E-08	1.26E-08	1.26E-08	3.81E-05	0.00E+00	0.00E+00	0.00E+00	1.26E-08	7.94E-05	0.00E+00	0.00E+00	7.94E-05
521	ALL	495466	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.22E-08	1.22E-08	1.22E-08	3.70E-05	0.00E+00	0.00E+00	0.00E+00	1.22E-08	7.69E-05	0.00E+00	0.00E+00	7.69E-05
522	ALL	495486	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.18E-08	1.18E-08	1.18E-08	3.58E-05	0.00E+00	0.00E+00	0.00E+00	1.18E-08	7.45E-05	0.00E+00	0.00E+00	7.45E-05
523	ALL	495506	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.14E-08	1.14E-08	1.14E-08	3.46E-05	0.00E+00	0.00E+00	0.00E+00	1.14E-08	7.20E-05	0.00E+00	0.00E+00	7.20E-05
524	ALL	495526	3761656	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.11E-08	1.11E-08	1.11E-08	3.35E-05	0.00E+00	0.00E+00	0.00E+00	1.11E-08	6.96E-05	0.00E+00	0.00E+00	6.96E-05
525	ALL	494846	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.51E-08	4.51E-08	4.51E-08	1.93E-04	0.00E+00	0.00E+00	0.00E+00	4.51E-08	2.97E-04	0.00E+00	0.00E+00	2.97E-04
526	ALL	494866	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.24E-08	4.24E-08	4.24E-08	1.64E-04	0.00E+00	0.00E+00	0.00E+00	4.24E-08	2.78E-04	0.00E+00	0.00E+00	2.78E-04
527	ALL	494886	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.00E-08	4.00E-08	4.00E-08	1.46E-04	0.00E+00	0.00E+00	0.00E+00	4.00E-08	2.62E-04	0.00E+00	0.00E+00	2.62E-04
528	ALL	494906	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.78E-08	3.78E-08	3.78E-08	1.34E-04	0.00E+00	0.00E+00	0.00E+00	3.78E-08	2.47E-04	0.00E+00	0.00E+00	2.47E-04
529	ALL	494926	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.58E-08	3.58E-08	3.58E-08	1.23E-04	0.00E+00	0.00E+00	0.00E+00	3.58E-08	2.33E-04	0.00E+00	0.00E+00	2.33E-04
530	ALL	494946	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.38E-08	3.38E-08	3.38E-08	1.14E-04	0.00E+00	0.00E+00	0.00E+00	3.38E-08	2.20E-04	0.00E+00	0.00E+00	2.20E-04
531	ALL	494966	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.21E-08	3.21E-08	3.21E-08	1.06E-04	0.00E+00	0.00E+00	0.00E+00	3.21E-08	2.08E-04	0.00E+00	0.00E+00	2.08E-04
532	ALL	494986	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.06E-08	3.06E-08	3.06E-08	9.97E-05	0.00E+00	0.00E+00	0.00E+00	3.06E-08	1.98E-04	0.00E+00	0.00E+00	1.98E-04
533	ALL	495006	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.91E-08	2.91E-08	2.91E-08	9.39E-05	0.00E+00	0.00E+00	0.00E+00	2.91E-08	1.88E-04	0.00E+00	0.00E+00	1.88E-04
534	ALL	495026	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.77E-08	2.77E-08	2.77E-08	8.87E-05	0.00E+00	0.00E+00	0.00E+00	2.77E-08	1.79E-04	0.00E+00	0.00E+00	1.79E-04
535	ALL	495046	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.64E-08	2.64E-08	2.64E-08	8.41E-05	0.00E+00	0.00E+00	0.00E+00	2.64E-08	1.70E-04	0.00E+00	0.00E+00	1.70E-04
536	ALL	495066	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.52E-08	2.52E-08	2.52E-08	7.97E-05	0.00E+00	0.00E+00	0.00E+00	2.52E-08	1.62E-04	0.00E+00	0.00E+00	1.62E-04
537	ALL	495086	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.42E-08	2.42E-08	2.42E-08	7.61E-05	0.00E+00	0.00E+00	0.00E+00	2.42E-08	1.55E-04	0.00E+00	0.00E+00	1.55E-04
538	ALL	495106	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.31E-08	2.31E-08	2.31E-08	7.25E-05	0.00E+00	0.00E+00	0.00E+00	2.31E-08	1.48E-04	0.00E+00	0.00E+00	1.48E-04
539	ALL	495126	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.21E-08	2.21E-08	2.21E-08	6.90E-05	0.00E+00	0.00E+00	0.00E+00	2.21E-08	1.42E-04	0.00E+00	0.00E+00	1.42E-04
540	ALL	495146	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.12E-08	2.12E-08	2.12E-08	6.58E-05	0.00E+00	0.00E+00	0.00E+00	2.12E-08	1.36E-04	0.00E+00	0.00E+00	1.36E-04
541	ALL	495166	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.03E-08	2.03E-08	2.03E-08	6.28E-05	0.00E+00	0.00E+00	0.00E+00	2.03E-08	1.30E-04	0.00E+00	0.00E+00	1.30E-04
542	ALL	495186	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.95E-08	1.95E-08	1.95E-08	6.01E-05	0.00E+00	0.00E+00	0.00E+00	1.95E-08	1.24E-04	0.00E+00	0.00E+00	1.24E-04
543	ALL	495206	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.88E-08	1.88E-08	1.88E-08	5.76E-05	0.00E+00	0.00E+00	0.00E+00	1.88E-08	1.20E-04	0.00E+00	0.00E+00	1.20E-04
544	ALL	495226	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.80E-08	1.80E-08	1.80E-08	5.53E-05	0.00E+00	0.00E+00	0.00E+00	1.80E-08	1.15E-04	0.00E+00	0.00E+00	1.15E-04
545	ALL	495246	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.74E-08	1.74E-08	1.74E-08	5.31E-05	0.00E+00	0.00E+00	0.00E+00	1.74E-08	1.10E-04	0.00E+00	0.00E+00	1.10E-04
546	ALL	495266	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.67E-08	1.67E-08	1.67E-08	5.11E-05	0.00E+00	0.00E+00	0.00E+00	1.67E-08	1.06E-04	0.00E+00	0.00E+00	1.06E-04
547	ALL	495286	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.61E-08	1.61E-08	1.61E-08	4.91E-05	0.00E+00	0.00E+00	0.00E+00	1.61E-08	1.02E-04	0.00E+00	0.00E+00	1.02E-04
548	ALL	495306	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.55E-08	1.55E-08	1.55E-08	4.72E-05	0.00E+00	0.00E+00	0.00E+00	1.55E-08	9.84E-05	0.00E+00	0.00E+00	9.84E-05
549	ALL	495326	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.50E-08	1.50E-08	1.50E-08	4.54E-05	0.00E+00	0.00E+00	0.00E+00	1.50E-08	9.48E-05	0.00E+00	0.00E+00	9.48E-05
550	ALL	495346	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.44E-08	1.44E-08	1.44E-08	4.38E-05	0.00E+00	0.00E+00	0.00E+00	1.44E-08	9.14E-05	0.00E+00	0.00E+00	9.14E-05
551	ALL	495366	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.40E-08	1.40E-08	1.40E-08	4.24E-05	0.00E+00	0.00E+00	0.00E+00	1.40E-08	8.84E-05	0.00E+00	0.00E+00	8.84E-05
552	ALL	495386	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.35E-08	1.35E-08	1.35E-08	4.10E-05	0.00E+00	0.00E+00	0.00E+00	1.35E-08	8.55E-05	0.00E+00	0.00E+00	8.55E-05
553	ALL	495406	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.31E-08	1.31E-08	1.31E-08	3.96E-05	0.00E+00	0.00E+00	0.00E+00	1.31E-08	8.26E-05	0.00E+00	0.00E+00	8.26E-05
554	ALL	495426	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.26E-08	1.26E-08	1.26E-08	3.81E-05	0.00E+00	0.00E+00	0.00E+00	1.26E-08	7.96E-05	0.00E+00	0.00E+00	7.96E-05
555	ALL	495446	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.21E-08	1.21E-08	1.21E-08	3.65E-05	0.00E+00	0.00E+00	0.00E+00	1.21E-08	7.64E-05	0.00E+00	0.00E+00	7.64E-05
556	ALL	495466	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.17E-08	1.17E-08	1.17E-08	3.54E-05	0.00E+00	0.00E+00	0.00E+00	1.17E-08	7.40E-05	0.00E+00	0.00E+00	7.40E-05
557	ALL	495486	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.14E-08	1.14E-08	1.14E-08	3.43E-05	0.00E+00	0.00E+00	0.00E+00	1.14E-08	7.17E-05	0.00E+00	0.00E+00	7.17E-05
558	ALL	495506	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.10E-08	1.10E-08	1.10E-08	3.33E-05	0.00E+00	0.00E+00	0.00E+00	1.10E-08	6.95E-05	0.00E+00	0.00E+00	6.95E-05
559	ALL	495526	3761676	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.07E-08	1.07E-08	1.07E-08	3.22E-05	0.00E+00	0.00E+00	0.00E+00	1.07E-08	6.72E-05	0.00E+00	0.00E+00	6.72E-05
560	ALL	494846	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.17E-08	4.17E-08	4.17E-08	1.81E-04	0.00E+00	0.00E+00	0.00E+00	4.17E-08	2.75E-04	0.00E+00	0.00E+00	2.75E-04
561	ALL	494866	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.92E-08	3.92E-08	3.92E-08	1.54E-04	0.00E+00	0.00E+00	0.00E+00	3.92E-08	2.58E-04	0.00E+00	0.00E+00	2.58E-04
562	ALL	494886	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.70E-08	3.70E-08	3.70E-08	1.37E-04	0.00E+00	0.00E+00	0.00E+00	3.70E-08	2.43E-04	0.00E+00	0.00E+00	2.43E-04
563	ALL	494906	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.51E-08	3.51E-08	3.51E-08	1.26E-04	0.00E+00	0.00E+00	0.00E+00	3.51E-08	2.30E-04	0.00E+00	0.00E+00	2.30E-04
564	ALL	494926	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.32E-08	3.32E-08	3.32E-08	1.16E-04	0.00E+00	0.00E+00	0.00E+00	3.32E-08	2.17E-04	0.00E+00	0.00E+00	2.17E-04
565	ALL	494946	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.15E-08	3.15E-08	3.15E-08	1.07E-04	0.00E+00	0.00E+00	0.00E+00	3.15E-08	2.05E-04	0.00E+00	0.00E+00	2.05E-04
566	ALL	494966	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.99E-08	2.99E-08	2.99E-08	1.00E-04	0.00E+00	0.00E+00	0.00E+00	2.99E-08	1.95E-04	0.00E+00	0.00E+00	1.95E-04
567	ALL	494986	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.85E-08	2.85E-08	2.85E-08	9.42E-05	0.00E+00	0.00E+00	0.00E+00	2.85E-08	1.85E-04	0.00E+00	0.00E+00	1.85E-04
568	ALL	495006	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.71E-08	2.71E-08	2.71E-08	8.87E-05	0.00E+00	0.00E+00	0.00E+00	2.71E-08	1.76E-04	0.00E+00	0.00E+00	1.76E-04
569	ALL	495026	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.59E-08	2.59E-08	2.59E-08	8.41E-05	0.00E+00	0.00E+00	0.00E+00	2.59E-08	1.68E-04	0.00E+00	0.00E+00	1.68E-04
570	ALL	495046	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.47E-08	2.47E-08	2.47E-08	7.96E-05	0.00E+00	0.00E+00	0.00E+00	2.47E-08	1.60E-04	0.00E+00	0.00E+00	1.60E-04
571	ALL	495066	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.36E-08	2.36E-08	2.36E-08	7.55E-05	0.00E+00	0.00E+00	0.00E+00	2.36E-08	1.52E-04	0.00E+00	0.00E+00	1.52E-04

572	ALL	495086	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.26E-08	2.26E-08	2.26E-08	7.21E-05	0.00E+00	0.00E+00	0.00E+00	2.26E-08	1.46E-04	0.00E+00	0.00E+00	1.46E-04
573	ALL	495106	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.17E-08	2.17E-08	2.17E-08	6.88E-05	0.00E+00	0.00E+00	0.00E+00	2.17E-08	1.40E-04	0.00E+00	0.00E+00	1.40E-04
574	ALL	495126	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.08E-08	2.08E-08	2.08E-08	6.56E-05	0.00E+00	0.00E+00	0.00E+00	2.08E-08	1.34E-04	0.00E+00	0.00E+00	1.34E-04
575	ALL	495146	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.00E-08	2.00E-08	2.00E-08	6.27E-05	0.00E+00	0.00E+00	0.00E+00	2.00E-08	1.28E-04	0.00E+00	0.00E+00	1.28E-04
576	ALL	495166	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.92E-08	1.92E-08	1.92E-08	6.00E-05	0.00E+00	0.00E+00	0.00E+00	1.92E-08	1.23E-04	0.00E+00	0.00E+00	1.23E-04
577	ALL	495186	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.85E-08	1.85E-08	1.85E-08	5.75E-05	0.00E+00	0.00E+00	0.00E+00	1.85E-08	1.18E-04	0.00E+00	0.00E+00	1.18E-04
578	ALL	495206	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.77E-08	1.77E-08	1.77E-08	5.51E-05	0.00E+00	0.00E+00	0.00E+00	1.77E-08	1.14E-04	0.00E+00	0.00E+00	1.14E-04
579	ALL	495226	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.71E-08	1.71E-08	1.71E-08	5.29E-05	0.00E+00	0.00E+00	0.00E+00	1.71E-08	1.09E-04	0.00E+00	0.00E+00	1.09E-04
580	ALL	495246	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.65E-08	1.65E-08	1.65E-08	5.08E-05	0.00E+00	0.00E+00	0.00E+00	1.65E-08	1.05E-04	0.00E+00	0.00E+00	1.05E-04
581	ALL	495266	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.59E-08	1.59E-08	1.59E-08	4.89E-05	0.00E+00	0.00E+00	0.00E+00	1.59E-08	1.01E-04	0.00E+00	0.00E+00	1.01E-04
582	ALL	495286	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.53E-08	1.53E-08	1.53E-08	4.71E-05	0.00E+00	0.00E+00	0.00E+00	1.53E-08	9.76E-05	0.00E+00	0.00E+00	9.76E-05
583	ALL	495306	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.48E-08	1.48E-08	1.48E-08	4.53E-05	0.00E+00	0.00E+00	0.00E+00	1.48E-08	9.41E-05	0.00E+00	0.00E+00	9.41E-05
584	ALL	495326	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.43E-08	1.43E-08	1.43E-08	4.36E-05	0.00E+00	0.00E+00	0.00E+00	1.43E-08	9.07E-05	0.00E+00	0.00E+00	9.07E-05
585	ALL	495346	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.38E-08	1.38E-08	1.38E-08	4.21E-05	0.00E+00	0.00E+00	0.00E+00	1.38E-08	8.75E-05	0.00E+00	0.00E+00	8.75E-05
586	ALL	495366	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.33E-08	1.33E-08	1.33E-08	4.06E-05	0.00E+00	0.00E+00	0.00E+00	1.33E-08	8.46E-05	0.00E+00	0.00E+00	8.46E-05
587	ALL	495386	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.29E-08	1.29E-08	1.29E-08	3.93E-05	0.00E+00	0.00E+00	0.00E+00	1.29E-08	8.18E-05	0.00E+00	0.00E+00	8.18E-05
588	ALL	495406	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.25E-08	1.25E-08	1.25E-08	3.80E-05	0.00E+00	0.00E+00	0.00E+00	1.25E-08	7.92E-05	0.00E+00	0.00E+00	7.92E-05
589	ALL	495426	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.21E-08	1.21E-08	1.21E-08	3.67E-05	0.00E+00	0.00E+00	0.00E+00	1.21E-08	7.65E-05	0.00E+00	0.00E+00	7.65E-05
590	ALL	495446	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.16E-08	1.16E-08	1.16E-08	3.53E-05	0.00E+00	0.00E+00	0.00E+00	1.16E-08	7.36E-05	0.00E+00	0.00E+00	7.36E-05
591	ALL	495466	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.12E-08	1.12E-08	1.12E-08	3.39E-05	0.00E+00	0.00E+00	0.00E+00	1.12E-08	7.10E-05	0.00E+00	0.00E+00	7.10E-05
592	ALL	495486	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.09E-08	1.09E-08	1.09E-08	3.29E-05	0.00E+00	0.00E+00	0.00E+00	1.09E-08	6.88E-05	0.00E+00	0.00E+00	6.88E-05
593	ALL	495506	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.06E-08	1.06E-08	1.06E-08	3.19E-05	0.00E+00	0.00E+00	0.00E+00	1.06E-08	6.68E-05	0.00E+00	0.00E+00	6.68E-05
594	ALL	495526	3761696	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.03E-08	1.03E-08	1.03E-08	3.10E-05	0.00E+00	0.00E+00	0.00E+00	1.03E-08	6.48E-05	0.00E+00	0.00E+00	6.48E-05
595	ALL	494846	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.87E-08	3.87E-08	3.87E-08	1.69E-04	0.00E+00	0.00E+00	0.00E+00	3.87E-08	2.55E-04	0.00E+00	0.00E+00	2.55E-04
596	ALL	494866	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.65E-08	3.65E-08	3.65E-08	1.44E-04	0.00E+00	0.00E+00	0.00E+00	3.65E-08	2.40E-04	0.00E+00	0.00E+00	2.40E-04
597	ALL	494886	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.45E-08	3.45E-08	3.45E-08	1.29E-04	0.00E+00	0.00E+00	0.00E+00	3.45E-08	2.26E-04	0.00E+00	0.00E+00	2.26E-04
598	ALL	494906	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.27E-08	3.27E-08	3.27E-08	1.18E-04	0.00E+00	0.00E+00	0.00E+00	3.27E-08	2.14E-04	0.00E+00	0.00E+00	2.14E-04
599	ALL	494926	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.10E-08	3.10E-08	3.10E-08	1.09E-04	0.00E+00	0.00E+00	0.00E+00	3.10E-08	2.03E-04	0.00E+00	0.00E+00	2.03E-04
600	ALL	494946	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.93E-08	2.93E-08	2.93E-08	1.01E-04	0.00E+00	0.00E+00	0.00E+00	2.93E-08	1.92E-04	0.00E+00	0.00E+00	1.92E-04
601	ALL	494966	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.79E-08	2.79E-08	2.79E-08	9.45E-05	0.00E+00	0.00E+00	0.00E+00	2.79E-08	1.82E-04	0.00E+00	0.00E+00	1.82E-04
602	ALL	494986	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.66E-08	2.66E-08	2.66E-08	8.90E-05	0.00E+00	0.00E+00	0.00E+00	2.66E-08	1.73E-04	0.00E+00	0.00E+00	1.73E-04
603	ALL	495006	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.53E-08	2.53E-08	2.53E-08	8.39E-05	0.00E+00	0.00E+00	0.00E+00	2.53E-08	1.65E-04	0.00E+00	0.00E+00	1.65E-04
604	ALL	495026	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.41E-08	2.41E-08	2.41E-08	7.95E-05	0.00E+00	0.00E+00	0.00E+00	2.41E-08	1.57E-04	0.00E+00	0.00E+00	1.57E-04
605	ALL	495046	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.30E-08	2.30E-08	2.30E-08	7.53E-05	0.00E+00	0.00E+00	0.00E+00	2.30E-08	1.50E-04	0.00E+00	0.00E+00	1.50E-04
606	ALL	495066	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.21E-08	2.21E-08	2.21E-08	7.16E-05	0.00E+00	0.00E+00	0.00E+00	2.21E-08	1.43E-04	0.00E+00	0.00E+00	1.43E-04
607	ALL	495086	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.12E-08	2.12E-08	2.12E-08	6.84E-05	0.00E+00	0.00E+00	0.00E+00	2.12E-08	1.37E-04	0.00E+00	0.00E+00	1.37E-04
608	ALL	495106	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.03E-08	2.03E-08	2.03E-08	6.52E-05	0.00E+00	0.00E+00	0.00E+00	2.03E-08	1.31E-04	0.00E+00	0.00E+00	1.31E-04
609	ALL	495126	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.95E-08	1.95E-08	1.95E-08	6.23E-05	0.00E+00	0.00E+00	0.00E+00	1.95E-08	1.26E-04	0.00E+00	0.00E+00	1.26E-04
610	ALL	495146	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.87E-08	1.87E-08	1.87E-08	5.96E-05	0.00E+00	0.00E+00	0.00E+00	1.87E-08	1.21E-04	0.00E+00	0.00E+00	1.21E-04
611	ALL	495166	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.80E-08	1.80E-08	1.80E-08	5.72E-05	0.00E+00	0.00E+00	0.00E+00	1.80E-08	1.16E-04	0.00E+00	0.00E+00	1.16E-04
612	ALL	495186	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.74E-08	1.74E-08	1.74E-08	5.49E-05	0.00E+00	0.00E+00	0.00E+00	1.74E-08	1.12E-04	0.00E+00	0.00E+00	1.12E-04
613	ALL	495206	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.67E-08	1.67E-08	1.67E-08	5.26E-05	0.00E+00	0.00E+00	0.00E+00	1.67E-08	1.08E-04	0.00E+00	0.00E+00	1.08E-04
614	ALL	495226	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.61E-08	1.61E-08	1.61E-08	5.04E-05	0.00E+00	0.00E+00	0.00E+00	1.61E-08	1.03E-04	0.00E+00	0.00E+00	1.03E-04
615	ALL	495246	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.55E-08	1.55E-08	1.55E-08	4.84E-05	0.00E+00	0.00E+00	0.00E+00	1.55E-08	9.95E-05	0.00E+00	0.00E+00	9.95E-05
616	ALL	495266	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.50E-08	1.50E-08	1.50E-08	4.68E-05	0.00E+00	0.00E+00	0.00E+00	1.50E-08	9.62E-05	0.00E+00	0.00E+00	9.62E-05
617	ALL	495286	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.45E-08	1.45E-08	1.45E-08	4.52E-05	0.00E+00	0.00E+00	0.00E+00	1.45E-08	9.29E-05	0.00E+00	0.00E+00	9.29E-05
618	ALL	495306	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.40E-08	1.40E-08	1.40E-08	4.35E-05	0.00E+00	0.00E+00	0.00E+00	1.40E-08	8.96E-05	0.00E+00	0.00E+00	8.96E-05
619	ALL	495326	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.35E-08	1.35E-08	1.35E-08	4.19E-05	0.00E+00	0.00E+00	0.00E+00	1.35E-08	8.65E-05	0.00E+00	0.00E+00	8.65E-05
620	ALL	495346	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.31E-08	1.31E-08	1.31E-08	4.05E-05	0.00E+00	0.00E+00	0.00E+00	1.31E-08	8.36E-05	0.00E+00	0.00E+00	8.36E-05
621	ALL	495366	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.27E-08	1.27E-08	1.27E-08	3.90E-05	0.00E+00	0.00E+00	0.00E+00	1.27E-08	8.07E-05	0.00E+00	0.00E+00	8.07E-05
622	ALL	495386	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.23E-08	1.23E-08	1.23E-08	3.77E-05	0.00E+00	0.00E+00	0.00E+00	1.23E-08	7.80E-05	0.00E+00	0.00E+00	7.80E-05
623	ALL	495406	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.19E-08	1.19E-08	1.19E-08	3.65E-05	0.00E+00	0.00E+00	0.00E+00	1.19E-08	7.56E-05	0.00E+00	0.00E+00	7.56E-05

624	ALL	495426	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.15E-08	1.15E-08	1.15E-08	3.53E-05	0.00E+00	0.00E+00	0.00E+00	1.15E-08	7.33E-05	0.00E+00	0.00E+00	7.33E-05
625	ALL	495446	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.11E-08	1.11E-08	1.11E-08	3.41E-05	0.00E+00	0.00E+00	0.00E+00	1.11E-08	7.08E-05	0.00E+00	0.00E+00	7.08E-05
626	ALL	495466	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.07E-08	1.07E-08	1.07E-08	3.26E-05	0.00E+00	0.00E+00	0.00E+00	1.07E-08	6.80E-05	0.00E+00	0.00E+00	6.80E-05
627	ALL	495486	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.04E-08	1.04E-08	1.04E-08	3.16E-05	0.00E+00	0.00E+00	0.00E+00	1.04E-08	6.58E-05	0.00E+00	0.00E+00	6.58E-05
628	ALL	495506	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.01E-08	1.01E-08	1.01E-08	3.07E-05	0.00E+00	0.00E+00	0.00E+00	1.01E-08	6.40E-05	0.00E+00	0.00E+00	6.40E-05
629	ALL	495526	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	9.83E-09	9.83E-09	9.83E-09	2.99E-05	0.00E+00	0.00E+00	0.00E+00	9.83E-09	6.22E-05	0.00E+00	0.00E+00	6.22E-05
630	ALL	495546	3761716	NonCancer	0.00E+00	0.00E+00	0.00E+00	9.57E-09	9.57E-09	9.57E-09	2.91E-05	0.00E+00	0.00E+00	0.00E+00	9.57E-09	6.05E-05	0.00E+00	0.00E+00	6.05E-05
631	ALL	494846	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.62E-08	3.62E-08	3.62E-08	1.57E-04	0.00E+00	0.00E+00	0.00E+00	3.62E-08	2.37E-04	0.00E+00	0.00E+00	2.37E-04
632	ALL	494866	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.42E-08	3.42E-08	3.42E-08	1.35E-04	0.00E+00	0.00E+00	0.00E+00	3.42E-08	2.24E-04	0.00E+00	0.00E+00	2.24E-04
633	ALL	494886	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.23E-08	3.23E-08	3.23E-08	1.21E-04	0.00E+00	0.00E+00	0.00E+00	3.23E-08	2.12E-04	0.00E+00	0.00E+00	2.12E-04
634	ALL	494906	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.07E-08	3.07E-08	3.07E-08	1.11E-04	0.00E+00	0.00E+00	0.00E+00	3.07E-08	2.01E-04	0.00E+00	0.00E+00	2.01E-04
635	ALL	494926	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.90E-08	2.90E-08	2.90E-08	1.03E-04	0.00E+00	0.00E+00	0.00E+00	2.90E-08	1.90E-04	0.00E+00	0.00E+00	1.90E-04
636	ALL	494946	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.75E-08	2.75E-08	2.75E-08	9.53E-05	0.00E+00	0.00E+00	0.00E+00	2.75E-08	1.80E-04	0.00E+00	0.00E+00	1.80E-04
637	ALL	494966	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.61E-08	2.61E-08	2.61E-08	8.92E-05	0.00E+00	0.00E+00	0.00E+00	2.61E-08	1.71E-04	0.00E+00	0.00E+00	1.71E-04
638	ALL	494986	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.49E-08	2.49E-08	2.49E-08	8.42E-05	0.00E+00	0.00E+00	0.00E+00	2.49E-08	1.63E-04	0.00E+00	0.00E+00	1.63E-04
639	ALL	495006	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.37E-08	2.37E-08	2.37E-08	7.94E-05	0.00E+00	0.00E+00	0.00E+00	2.37E-08	1.55E-04	0.00E+00	0.00E+00	1.55E-04
640	ALL	495026	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.26E-08	2.26E-08	2.26E-08	7.53E-05	0.00E+00	0.00E+00	0.00E+00	2.26E-08	1.48E-04	0.00E+00	0.00E+00	1.48E-04
641	ALL	495046	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.16E-08	2.16E-08	2.16E-08	7.13E-05	0.00E+00	0.00E+00	0.00E+00	2.16E-08	1.41E-04	0.00E+00	0.00E+00	1.41E-04
642	ALL	495066	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.07E-08	2.07E-08	2.07E-08	6.79E-05	0.00E+00	0.00E+00	0.00E+00	2.07E-08	1.35E-04	0.00E+00	0.00E+00	1.35E-04
643	ALL	495086	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.99E-08	1.99E-08	1.99E-08	6.49E-05	0.00E+00	0.00E+00	0.00E+00	1.99E-08	1.29E-04	0.00E+00	0.00E+00	1.29E-04
644	ALL	495106	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.90E-08	1.90E-08	1.90E-08	6.19E-05	0.00E+00	0.00E+00	0.00E+00	1.90E-08	1.24E-04	0.00E+00	0.00E+00	1.24E-04
645	ALL	495126	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.83E-08	1.83E-08	1.83E-08	5.92E-05	0.00E+00	0.00E+00	0.00E+00	1.83E-08	1.19E-04	0.00E+00	0.00E+00	1.19E-04
646	ALL	495146	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.76E-08	1.76E-08	1.76E-08	5.66E-05	0.00E+00	0.00E+00	0.00E+00	1.76E-08	1.14E-04	0.00E+00	0.00E+00	1.14E-04
647	ALL	495166	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.69E-08	1.69E-08	1.69E-08	5.43E-05	0.00E+00	0.00E+00	0.00E+00	1.69E-08	1.09E-04	0.00E+00	0.00E+00	1.09E-04
648	ALL	495186	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.63E-08	1.63E-08	1.63E-08	5.22E-05	0.00E+00	0.00E+00	0.00E+00	1.63E-08	1.06E-04	0.00E+00	0.00E+00	1.06E-04
649	ALL	495206	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.57E-08	1.57E-08	1.57E-08	5.01E-05	0.00E+00	0.00E+00	0.00E+00	1.57E-08	1.01E-04	0.00E+00	0.00E+00	1.01E-04
650	ALL	495226	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.51E-08	1.51E-08	1.51E-08	4.80E-05	0.00E+00	0.00E+00	0.00E+00	1.51E-08	9.75E-05	0.00E+00	0.00E+00	9.75E-05
651	ALL	495246	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.45E-08	1.45E-08	1.45E-08	4.60E-05	0.00E+00	0.00E+00	0.00E+00	1.45E-08	9.38E-05	0.00E+00	0.00E+00	9.38E-05
652	ALL	495266	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.41E-08	1.41E-08	1.41E-08	4.46E-05	0.00E+00	0.00E+00	0.00E+00	1.41E-08	9.09E-05	0.00E+00	0.00E+00	9.09E-05
653	ALL	495286	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.37E-08	1.37E-08	1.37E-08	4.32E-05	0.00E+00	0.00E+00	0.00E+00	1.37E-08	8.80E-05	0.00E+00	0.00E+00	8.80E-05
654	ALL	495306	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.32E-08	1.32E-08	1.32E-08	4.17E-05	0.00E+00	0.00E+00	0.00E+00	1.32E-08	8.51E-05	0.00E+00	0.00E+00	8.51E-05
655	ALL	495326	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.28E-08	1.28E-08	1.28E-08	4.02E-05	0.00E+00	0.00E+00	0.00E+00	1.28E-08	8.22E-05	0.00E+00	0.00E+00	8.22E-05
656	ALL	495346	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.24E-08	1.24E-08	1.24E-08	3.89E-05	0.00E+00	0.00E+00	0.00E+00	1.24E-08	7.96E-05	0.00E+00	0.00E+00	7.96E-05
657	ALL	495366	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.20E-08	1.20E-08	1.20E-08	3.75E-05	0.00E+00	0.00E+00	0.00E+00	1.20E-08	7.69E-05	0.00E+00	0.00E+00	7.69E-05
658	ALL	495386	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.16E-08	1.16E-08	1.16E-08	3.62E-05	0.00E+00	0.00E+00	0.00E+00	1.16E-08	7.43E-05	0.00E+00	0.00E+00	7.43E-05
659	ALL	495406	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.13E-08	1.13E-08	1.13E-08	3.50E-05	0.00E+00	0.00E+00	0.00E+00	1.13E-08	7.20E-05	0.00E+00	0.00E+00	7.20E-05
660	ALL	495426	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.09E-08	1.09E-08	1.09E-08	3.40E-05	0.00E+00	0.00E+00	0.00E+00	1.09E-08	6.99E-05	0.00E+00	0.00E+00	6.99E-05
661	ALL	495446	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.06E-08	1.06E-08	1.06E-08	3.29E-05	0.00E+00	0.00E+00	0.00E+00	1.06E-08	6.78E-05	0.00E+00	0.00E+00	6.78E-05
662	ALL	495466	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.02E-08	1.02E-08	1.02E-08	3.16E-05	0.00E+00	0.00E+00	0.00E+00	1.02E-08	6.52E-05	0.00E+00	0.00E+00	6.52E-05
663	ALL	495486	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	9.91E-09	9.91E-09	9.91E-09	3.05E-05	0.00E+00	0.00E+00	0.00E+00	9.91E-09	6.31E-05	0.00E+00	0.00E+00	6.31E-05
664	ALL	495506	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	9.64E-09	9.64E-09	9.64E-09	2.96E-05	0.00E+00	0.00E+00	0.00E+00	9.64E-09	6.13E-05	0.00E+00	0.00E+00	6.13E-05
665	ALL	495526	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	9.39E-09	9.39E-09	9.39E-09	2.89E-05	0.00E+00	0.00E+00	0.00E+00	9.39E-09	5.97E-05	0.00E+00	0.00E+00	5.97E-05
666	ALL	495546	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	9.14E-09	9.14E-09	9.14E-09	2.81E-05	0.00E+00	0.00E+00	0.00E+00	9.14E-09	5.80E-05	0.00E+00	0.00E+00	5.80E-05
667	ALL	494846	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.41E-08	3.41E-08	3.41E-08	1.44E-04	0.00E+00	0.00E+00	0.00E+00	3.41E-08	2.22E-04	0.00E+00	0.00E+00	2.22E-04
668	ALL	494866	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.22E-08	3.22E-08	3.22E-08	1.25E-04	0.00E+00	0.00E+00	0.00E+00	3.22E-08	2.10E-04	0.00E+00	0.00E+00	2.10E-04
669	ALL	494886	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.05E-08	3.05E-08	3.05E-08	1.13E-04	0.00E+00	0.00E+00	0.00E+00	3.05E-08	1.99E-04	0.00E+00	0.00E+00	1.99E-04
670	ALL	494906	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.89E-08	2.89E-08	2.89E-08	1.04E-04	0.00E+00	0.00E+00	0.00E+00	2.89E-08	1.89E-04	0.00E+00	0.00E+00	1.89E-04
671	ALL	494926	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.74E-08	2.74E-08	2.74E-08	9.65E-05	0.00E+00	0.00E+00	0.00E+00	2.74E-08	1.79E-04	0.00E+00	0.00E+00	1.79E-04
672	ALL	494946	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.60E-08	2.60E-08	2.60E-08	9.00E-05	0.00E+00	0.00E+00	0.00E+00	2.60E-08	1.70E-04	0.00E+00	0.00E+00	1.70E-04
673	ALL	494966	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.47E-08	2.47E-08	2.47E-08	8.44E-05	0.00E+00	0.00E+00	0.00E+00	2.47E-08	1.61E-04	0.00E+00	0.00E+00	1.61E-04
674	ALL	494986	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.35E-08	2.35E-08	2.35E-08	7.98E-05	0.00E+00	0.00E+00	0.00E+00	2.35E-08	1.54E-04	0.00E+00	0.00E+00	1.54E-04
675	ALL	495006	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.24E-08	2.24E-08	2.24E-08	7.53E-05	0.00E+00	0.00E+00	0.00E+00	2.24E-08	1.46E-04	0.00E+00	0.00E+00	1.46E-04

676	ALL	495026	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.14E-08	2.14E-08	2.14E-08	7.15E-05	0.00E+00	0.00E+00	0.00E+00	2.14E-08	1.39E-04	0.00E+00	0.00E+00	1.39E-04
677	ALL	495046	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.04E-08	2.04E-08	2.04E-08	6.79E-05	0.00E+00	0.00E+00	0.00E+00	2.04E-08	1.33E-04	0.00E+00	0.00E+00	1.33E-04
678	ALL	495066	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.95E-08	1.95E-08	1.95E-08	6.47E-05	0.00E+00	0.00E+00	0.00E+00	1.95E-08	1.27E-04	0.00E+00	0.00E+00	1.27E-04
679	ALL	495086	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.87E-08	1.87E-08	1.87E-08	6.18E-05	0.00E+00	0.00E+00	0.00E+00	1.87E-08	1.22E-04	0.00E+00	0.00E+00	1.22E-04
680	ALL	495106	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.80E-08	1.80E-08	1.80E-08	5.89E-05	0.00E+00	0.00E+00	0.00E+00	1.80E-08	1.17E-04	0.00E+00	0.00E+00	1.17E-04
681	ALL	495126	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.72E-08	1.72E-08	1.72E-08	5.63E-05	0.00E+00	0.00E+00	0.00E+00	1.72E-08	1.12E-04	0.00E+00	0.00E+00	1.12E-04
682	ALL	495146	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.65E-08	1.65E-08	1.65E-08	5.39E-05	0.00E+00	0.00E+00	0.00E+00	1.65E-08	1.07E-04	0.00E+00	0.00E+00	1.07E-04
683	ALL	495166	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.59E-08	1.59E-08	1.59E-08	5.16E-05	0.00E+00	0.00E+00	0.00E+00	1.59E-08	1.03E-04	0.00E+00	0.00E+00	1.03E-04
684	ALL	495186	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.54E-08	1.54E-08	1.54E-08	4.97E-05	0.00E+00	0.00E+00	0.00E+00	1.54E-08	9.97E-05	0.00E+00	0.00E+00	9.97E-05
685	ALL	495206	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.48E-08	1.48E-08	1.48E-08	4.78E-05	0.00E+00	0.00E+00	0.00E+00	1.48E-08	9.60E-05	0.00E+00	0.00E+00	9.60E-05
686	ALL	495226	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.43E-08	1.43E-08	1.43E-08	4.59E-05	0.00E+00	0.00E+00	0.00E+00	1.43E-08	9.24E-05	0.00E+00	0.00E+00	9.24E-05
687	ALL	495246	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.37E-08	1.37E-08	1.37E-08	4.41E-05	0.00E+00	0.00E+00	0.00E+00	1.37E-08	8.89E-05	0.00E+00	0.00E+00	8.89E-05
688	ALL	495266	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.33E-08	1.33E-08	1.33E-08	4.27E-05	0.00E+00	0.00E+00	0.00E+00	1.33E-08	8.62E-05	0.00E+00	0.00E+00	8.62E-05
689	ALL	495286	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.29E-08	1.29E-08	1.29E-08	4.13E-05	0.00E+00	0.00E+00	0.00E+00	1.29E-08	8.35E-05	0.00E+00	0.00E+00	8.35E-05
690	ALL	495306	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.25E-08	1.25E-08	1.25E-08	3.99E-05	0.00E+00	0.00E+00	0.00E+00	1.25E-08	8.07E-05	0.00E+00	0.00E+00	8.07E-05
691	ALL	495326	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.21E-08	1.21E-08	1.21E-08	3.86E-05	0.00E+00	0.00E+00	0.00E+00	1.21E-08	7.81E-05	0.00E+00	0.00E+00	7.81E-05
692	ALL	495346	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.18E-08	1.18E-08	1.18E-08	3.74E-05	0.00E+00	0.00E+00	0.00E+00	1.18E-08	7.57E-05	0.00E+00	0.00E+00	7.57E-05
693	ALL	495366	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.14E-08	1.14E-08	1.14E-08	3.61E-05	0.00E+00	0.00E+00	0.00E+00	1.14E-08	7.32E-05	0.00E+00	0.00E+00	7.32E-05
694	ALL	495386	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.10E-08	1.10E-08	1.10E-08	3.48E-05	0.00E+00	0.00E+00	0.00E+00	1.10E-08	7.08E-05	0.00E+00	0.00E+00	7.08E-05
695	ALL	495406	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.07E-08	1.07E-08	1.07E-08	3.37E-05	0.00E+00	0.00E+00	0.00E+00	1.07E-08	6.86E-05	0.00E+00	0.00E+00	6.86E-05
696	ALL	495426	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.04E-08	1.04E-08	1.04E-08	3.27E-05	0.00E+00	0.00E+00	0.00E+00	1.04E-08	6.66E-05	0.00E+00	0.00E+00	6.66E-05
697	ALL	495446	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.01E-08	1.01E-08	1.01E-08	3.17E-05	0.00E+00	0.00E+00	0.00E+00	1.01E-08	6.47E-05	0.00E+00	0.00E+00	6.47E-05
698	ALL	495466	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	9.76E-09	9.76E-09	9.76E-09	3.06E-05	0.00E+00	0.00E+00	0.00E+00	9.76E-09	6.25E-05	0.00E+00	0.00E+00	6.25E-05
699	ALL	495486	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	9.47E-09	9.47E-09	9.47E-09	2.96E-05	0.00E+00	0.00E+00	0.00E+00	9.47E-09	6.06E-05	0.00E+00	0.00E+00	6.06E-05
700	ALL	495506	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	9.22E-09	9.22E-09	9.22E-09	2.88E-05	0.00E+00	0.00E+00	0.00E+00	9.22E-09	5.89E-05	0.00E+00	0.00E+00	5.89E-05
701	ALL	495526	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	8.98E-09	8.98E-09	8.98E-09	2.80E-05	0.00E+00	0.00E+00	0.00E+00	8.98E-09	5.73E-05	0.00E+00	0.00E+00	5.73E-05
702	ALL	495546	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	8.74E-09	8.74E-09	8.74E-09	2.72E-05	0.00E+00	0.00E+00	0.00E+00	8.74E-09	5.57E-05	0.00E+00	0.00E+00	5.57E-05
703	ALL	495566	3761756	NonCancer	0.00E+00	0.00E+00	0.00E+00	8.51E-09	8.51E-09	8.51E-09	2.64E-05	0.00E+00	0.00E+00	0.00E+00	8.51E-09	5.42E-05	0.00E+00	0.00E+00	5.42E-05
704	ALL	494846	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.21E-08	3.21E-08	3.21E-08	1.29E-04	0.00E+00	0.00E+00	0.00E+00	3.21E-08	2.09E-04	0.00E+00	0.00E+00	2.09E-04
705	ALL	494866	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.04E-08	3.04E-08	3.04E-08	1.14E-04	0.00E+00	0.00E+00	0.00E+00	3.04E-08	1.98E-04	0.00E+00	0.00E+00	1.98E-04
706	ALL	494886	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.89E-08	2.89E-08	2.89E-08	1.05E-04	0.00E+00	0.00E+00	0.00E+00	2.89E-08	1.87E-04	0.00E+00	0.00E+00	1.87E-04
707	ALL	494906	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.74E-08	2.74E-08	2.74E-08	9.70E-05	0.00E+00	0.00E+00	0.00E+00	2.74E-08	1.78E-04	0.00E+00	0.00E+00	1.78E-04
708	ALL	494926	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.60E-08	2.60E-08	2.60E-08	9.05E-05	0.00E+00	0.00E+00	0.00E+00	2.60E-08	1.69E-04	0.00E+00	0.00E+00	1.69E-04
709	ALL	494946	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.47E-08	2.47E-08	2.47E-08	8.49E-05	0.00E+00	0.00E+00	0.00E+00	2.47E-08	1.60E-04	0.00E+00	0.00E+00	1.60E-04
710	ALL	494966	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.35E-08	2.35E-08	2.35E-08	7.99E-05	0.00E+00	0.00E+00	0.00E+00	2.35E-08	1.52E-04	0.00E+00	0.00E+00	1.52E-04
711	ALL	494986	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.24E-08	2.24E-08	2.24E-08	7.56E-05	0.00E+00	0.00E+00	0.00E+00	2.24E-08	1.45E-04	0.00E+00	0.00E+00	1.45E-04
712	ALL	495006	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.13E-08	2.13E-08	2.13E-08	7.15E-05	0.00E+00	0.00E+00	0.00E+00	2.13E-08	1.38E-04	0.00E+00	0.00E+00	1.38E-04
713	ALL	495026	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.03E-08	2.03E-08	2.03E-08	6.80E-05	0.00E+00	0.00E+00	0.00E+00	2.03E-08	1.32E-04	0.00E+00	0.00E+00	1.32E-04
714	ALL	495046	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.94E-08	1.94E-08	1.94E-08	6.46E-05	0.00E+00	0.00E+00	0.00E+00	1.94E-08	1.26E-04	0.00E+00	0.00E+00	1.26E-04
715	ALL	495066	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.86E-08	1.86E-08	1.86E-08	6.16E-05	0.00E+00	0.00E+00	0.00E+00	1.86E-08	1.21E-04	0.00E+00	0.00E+00	1.21E-04
716	ALL	495086	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.78E-08	1.78E-08	1.78E-08	5.89E-05	0.00E+00	0.00E+00	0.00E+00	1.78E-08	1.16E-04	0.00E+00	0.00E+00	1.16E-04
717	ALL	495106	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.70E-08	1.70E-08	1.70E-08	5.62E-05	0.00E+00	0.00E+00	0.00E+00	1.70E-08	1.11E-04	0.00E+00	0.00E+00	1.11E-04
718	ALL	495126	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.63E-08	1.63E-08	1.63E-08	5.36E-05	0.00E+00	0.00E+00	0.00E+00	1.63E-08	1.06E-04	0.00E+00	0.00E+00	1.06E-04
719	ALL	495146	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.56E-08	1.56E-08	1.56E-08	5.13E-05	0.00E+00	0.00E+00	0.00E+00	1.56E-08	1.02E-04	0.00E+00	0.00E+00	1.02E-04
720	ALL	495166	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.50E-08	1.50E-08	1.50E-08	4.92E-05	0.00E+00	0.00E+00	0.00E+00	1.50E-08	9.77E-05	0.00E+00	0.00E+00	9.77E-05
721	ALL	495186	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.45E-08	1.45E-08	1.45E-08	4.74E-05	0.00E+00	0.00E+00	0.00E+00	1.45E-08	9.43E-05	0.00E+00	0.00E+00	9.43E-05
722	ALL	495206	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.40E-08	1.40E-08	1.40E-08	4.57E-05	0.00E+00	0.00E+00	0.00E+00	1.40E-08	9.11E-05	0.00E+00	0.00E+00	9.11E-05
723	ALL	495226	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.35E-08	1.35E-08	1.35E-08	4.40E-05	0.00E+00	0.00E+00	0.00E+00	1.35E-08	8.78E-05	0.00E+00	0.00E+00	8.78E-05
724	ALL	495246	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.30E-08	1.30E-08	1.30E-08	4.24E-05	0.00E+00	0.00E+00	0.00E+00	1.30E-08	8.46E-05	0.00E+00	0.00E+00	8.46E-05
725	ALL	495266	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.26E-08	1.26E-08	1.26E-08	4.10E-05	0.00E+00	0.00E+00	0.00E+00	1.26E-08	8.20E-05	0.00E+00	0.00E+00	8.20E-05
726	ALL	495286	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.22E-08	1.22E-08	1.22E-08	3.96E-05	0.00E+00	0.00E+00	0.00E+00	1.22E-08	7.93E-05	0.00E+00	0.00E+00	7.93E-05
727	ALL	495306	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.18E-08	1.18E-08	1.18E-08	3.83E-05	0.00E+00	0.00E+00	0.00E+00	1.18E-08	7.67E-05	0.00E+00	0.00E+00	7.67E-05

728	ALL	495326	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.15E-08	1.15E-08	1.15E-08	3.70E-05	0.00E+00	0.00E+00	0.00E+00	1.15E-08	7.42E-05	0.00E+00	0.00E+00	7.42E-05
729	ALL	495346	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.11E-08	1.11E-08	1.11E-08	3.58E-05	0.00E+00	0.00E+00	0.00E+00	1.11E-08	7.19E-05	0.00E+00	0.00E+00	7.19E-05
730	ALL	495366	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.08E-08	1.08E-08	1.08E-08	3.47E-05	0.00E+00	0.00E+00	0.00E+00	1.08E-08	6.96E-05	0.00E+00	0.00E+00	6.96E-05
731	ALL	495386	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.04E-08	1.04E-08	1.04E-08	3.35E-05	0.00E+00	0.00E+00	0.00E+00	1.04E-08	6.74E-05	0.00E+00	0.00E+00	6.74E-05
732	ALL	495406	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.01E-08	1.01E-08	1.01E-08	3.25E-05	0.00E+00	0.00E+00	0.00E+00	1.01E-08	6.54E-05	0.00E+00	0.00E+00	6.54E-05
733	ALL	495426	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	9.86E-09	9.86E-09	9.86E-09	3.15E-05	0.00E+00	0.00E+00	0.00E+00	9.86E-09	6.35E-05	0.00E+00	0.00E+00	6.35E-05
734	ALL	495446	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	9.58E-09	9.58E-09	9.58E-09	3.06E-05	0.00E+00	0.00E+00	0.00E+00	9.58E-09	6.17E-05	0.00E+00	0.00E+00	6.17E-05
735	ALL	495466	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	9.31E-09	9.31E-09	9.31E-09	2.97E-05	0.00E+00	0.00E+00	0.00E+00	9.31E-09	5.99E-05	0.00E+00	0.00E+00	5.99E-05
736	ALL	495486	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	9.05E-09	9.05E-09	9.05E-09	2.88E-05	0.00E+00	0.00E+00	0.00E+00	9.05E-09	5.82E-05	0.00E+00	0.00E+00	5.82E-05
737	ALL	495506	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	8.81E-09	8.81E-09	8.81E-09	2.80E-05	0.00E+00	0.00E+00	0.00E+00	8.81E-09	5.66E-05	0.00E+00	0.00E+00	5.66E-05
738	ALL	495526	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	8.58E-09	8.58E-09	8.58E-09	2.72E-05	0.00E+00	0.00E+00	0.00E+00	8.58E-09	5.50E-05	0.00E+00	0.00E+00	5.50E-05
739	ALL	495546	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	8.34E-09	8.34E-09	8.34E-09	2.64E-05	0.00E+00	0.00E+00	0.00E+00	8.34E-09	5.35E-05	0.00E+00	0.00E+00	5.35E-05
740	ALL	495566	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	8.11E-09	8.11E-09	8.11E-09	2.56E-05	0.00E+00	0.00E+00	0.00E+00	8.11E-09	5.19E-05	0.00E+00	0.00E+00	5.19E-05
741	ALL	494846	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.02E-08	3.02E-08	3.02E-08	1.13E-04	0.00E+00	0.00E+00	0.00E+00	3.02E-08	1.95E-04	0.00E+00	0.00E+00	1.95E-04
742	ALL	494866	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.87E-08	2.87E-08	2.87E-08	1.03E-04	0.00E+00	0.00E+00	0.00E+00	2.87E-08	1.85E-04	0.00E+00	0.00E+00	1.85E-04
743	ALL	494886	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.72E-08	2.72E-08	2.72E-08	9.60E-05	0.00E+00	0.00E+00	0.00E+00	2.72E-08	1.76E-04	0.00E+00	0.00E+00	1.76E-04
744	ALL	494906	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.59E-08	2.59E-08	2.59E-08	8.98E-05	0.00E+00	0.00E+00	0.00E+00	2.59E-08	1.67E-04	0.00E+00	0.00E+00	1.67E-04
745	ALL	494926	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.46E-08	2.46E-08	2.46E-08	8.44E-05	0.00E+00	0.00E+00	0.00E+00	2.46E-08	1.59E-04	0.00E+00	0.00E+00	1.59E-04
746	ALL	494946	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.34E-08	2.34E-08	2.34E-08	7.95E-05	0.00E+00	0.00E+00	0.00E+00	2.34E-08	1.51E-04	0.00E+00	0.00E+00	1.51E-04
747	ALL	494966	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.23E-08	2.23E-08	2.23E-08	7.51E-05	0.00E+00	0.00E+00	0.00E+00	2.23E-08	1.44E-04	0.00E+00	0.00E+00	1.44E-04
748	ALL	494986	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.12E-08	2.12E-08	2.12E-08	7.12E-05	0.00E+00	0.00E+00	0.00E+00	2.12E-08	1.37E-04	0.00E+00	0.00E+00	1.37E-04
749	ALL	495006	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.02E-08	2.02E-08	2.02E-08	6.76E-05	0.00E+00	0.00E+00	0.00E+00	2.02E-08	1.31E-04	0.00E+00	0.00E+00	1.31E-04
750	ALL	495026	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.93E-08	1.93E-08	1.93E-08	6.43E-05	0.00E+00	0.00E+00	0.00E+00	1.93E-08	1.25E-04	0.00E+00	0.00E+00	1.25E-04
751	ALL	495046	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.84E-08	1.84E-08	1.84E-08	6.12E-05	0.00E+00	0.00E+00	0.00E+00	1.84E-08	1.20E-04	0.00E+00	0.00E+00	1.20E-04
752	ALL	495066	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.76E-08	1.76E-08	1.76E-08	5.84E-05	0.00E+00	0.00E+00	0.00E+00	1.76E-08	1.14E-04	0.00E+00	0.00E+00	1.14E-04
753	ALL	495086	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.69E-08	1.69E-08	1.69E-08	5.58E-05	0.00E+00	0.00E+00	0.00E+00	1.69E-08	1.10E-04	0.00E+00	0.00E+00	1.10E-04
754	ALL	495106	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.62E-08	1.62E-08	1.62E-08	5.33E-05	0.00E+00	0.00E+00	0.00E+00	1.62E-08	1.05E-04	0.00E+00	0.00E+00	1.05E-04
755	ALL	495126	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.55E-08	1.55E-08	1.55E-08	5.10E-05	0.00E+00	0.00E+00	0.00E+00	1.55E-08	1.01E-04	0.00E+00	0.00E+00	1.01E-04
756	ALL	495146	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.49E-08	1.49E-08	1.49E-08	4.88E-05	0.00E+00	0.00E+00	0.00E+00	1.49E-08	9.65E-05	0.00E+00	0.00E+00	9.65E-05
757	ALL	495166	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.43E-08	1.43E-08	1.43E-08	4.69E-05	0.00E+00	0.00E+00	0.00E+00	1.43E-08	9.27E-05	0.00E+00	0.00E+00	9.27E-05
758	ALL	495186	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.38E-08	1.38E-08	1.38E-08	4.52E-05	0.00E+00	0.00E+00	0.00E+00	1.38E-08	8.95E-05	0.00E+00	0.00E+00	8.95E-05
759	ALL	495206	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.33E-08	1.33E-08	1.33E-08	4.37E-05	0.00E+00	0.00E+00	0.00E+00	1.33E-08	8.66E-05	0.00E+00	0.00E+00	8.66E-05
760	ALL	495226	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.29E-08	1.29E-08	1.29E-08	4.22E-05	0.00E+00	0.00E+00	0.00E+00	1.29E-08	8.36E-05	0.00E+00	0.00E+00	8.36E-05
761	ALL	495246	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.24E-08	1.24E-08	1.24E-08	4.07E-05	0.00E+00	0.00E+00	0.00E+00	1.24E-08	8.07E-05	0.00E+00	0.00E+00	8.07E-05
762	ALL	495266	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.20E-08	1.20E-08	1.20E-08	3.93E-05	0.00E+00	0.00E+00	0.00E+00	1.20E-08	7.80E-05	0.00E+00	0.00E+00	7.80E-05
763	ALL	495286	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.16E-08	1.16E-08	1.16E-08	3.80E-05	0.00E+00	0.00E+00	0.00E+00	1.16E-08	7.55E-05	0.00E+00	0.00E+00	7.55E-05
764	ALL	495306	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.13E-08	1.13E-08	1.13E-08	3.68E-05	0.00E+00	0.00E+00	0.00E+00	1.13E-08	7.31E-05	0.00E+00	0.00E+00	7.31E-05
765	ALL	495326	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.09E-08	1.09E-08	1.09E-08	3.56E-05	0.00E+00	0.00E+00	0.00E+00	1.09E-08	7.07E-05	0.00E+00	0.00E+00	7.07E-05
766	ALL	495346	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.06E-08	1.06E-08	1.06E-08	3.44E-05	0.00E+00	0.00E+00	0.00E+00	1.06E-08	6.85E-05	0.00E+00	0.00E+00	6.85E-05
767	ALL	495366	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.02E-08	1.02E-08	1.02E-08	3.33E-05	0.00E+00	0.00E+00	0.00E+00	1.02E-08	6.63E-05	0.00E+00	0.00E+00	6.63E-05
768	ALL	495386	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	9.94E-09	9.94E-09	9.94E-09	3.23E-05	0.00E+00	0.00E+00	0.00E+00	9.94E-09	6.43E-05	0.00E+00	0.00E+00	6.43E-05
769	ALL	495406	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	9.65E-09	9.65E-09	9.65E-09	3.13E-05	0.00E+00	0.00E+00	0.00E+00	9.65E-09	6.24E-05	0.00E+00	0.00E+00	6.24E-05
770	ALL	495426	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	9.38E-09	9.38E-09	9.38E-09	3.04E-05	0.00E+00	0.00E+00	0.00E+00	9.38E-09	6.06E-05	0.00E+00	0.00E+00	6.06E-05
771	ALL	495446	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	9.12E-09	9.12E-09	9.12E-09	2.95E-05	0.00E+00	0.00E+00	0.00E+00	9.12E-09	5.89E-05	0.00E+00	0.00E+00	5.89E-05
772	ALL	495466	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	8.87E-09	8.87E-09	8.87E-09	2.86E-05	0.00E+00	0.00E+00	0.00E+00	8.87E-09	5.72E-05	0.00E+00	0.00E+00	5.72E-05
773	ALL	495486	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	8.63E-09	8.63E-09	8.63E-09	2.78E-05	0.00E+00	0.00E+00	0.00E+00	8.63E-09	5.56E-05	0.00E+00	0.00E+00	5.56E-05
774	ALL	495506	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	8.40E-09	8.40E-09	8.40E-09	2.70E-05	0.00E+00	0.00E+00	0.00E+00	8.40E-09	5.41E-05	0.00E+00	0.00E+00	5.41E-05
775	ALL	495526	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	8.17E-09	8.17E-09	8.17E-09	2.63E-05	0.00E+00	0.00E+00	0.00E+00	8.17E-09	5.26E-05	0.00E+00	0.00E+00	5.26E-05
776	ALL	495546	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	7.96E-09	7.96E-09	7.96E-09	2.55E-05	0.00E+00	0.00E+00	0.00E+00	7.96E-09	5.12E-05	0.00E+00	0.00E+00	5.12E-05
777	ALL	495566	3761796	NonCancer	0.00E+00	0.00E+00	0.00E+00	7.73E-09	7.73E-09	7.73E-09	2.48E-05	0.00E+00	0.00E+00	0.00E+00	7.73E-09	4.97E-05	0.00E+00	0.00E+00	4.97E-05
778	ALL	494966	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.12E-08	2.12E-08	2.12E-08	7.08E-05	0.00E+00	0.00E+00	0.00E+00	2.12E-08	1.36E-04	0.00E+00	0.00E+00	1.36E-04
779	ALL	494986	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.02E-08	2.02E-08	2.02E-08	6.71E-05	0.00E+00	0.00E+00	0.00E+00	2.02E-08	1.30E-04	0.00E+00	0.00E+00	1.30E-04

780	ALL	495006	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.93E-08	1.93E-08	1.93E-08	6.39E-05	0.00E+00	0.00E+00	0.00E+00	1.93E-08	1.24E-04	0.00E+00	0.00E+00	1.24E-04
781	ALL	495026	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.84E-08	1.84E-08	1.84E-08	6.09E-05	0.00E+00	0.00E+00	0.00E+00	1.84E-08	1.19E-04	0.00E+00	0.00E+00	1.19E-04
782	ALL	495046	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.76E-08	1.76E-08	1.76E-08	5.81E-05	0.00E+00	0.00E+00	0.00E+00	1.76E-08	1.14E-04	0.00E+00	0.00E+00	1.14E-04
783	ALL	495066	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.68E-08	1.68E-08	1.68E-08	5.55E-05	0.00E+00	0.00E+00	0.00E+00	1.68E-08	1.09E-04	0.00E+00	0.00E+00	1.09E-04
784	ALL	495086	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.61E-08	1.61E-08	1.61E-08	5.30E-05	0.00E+00	0.00E+00	0.00E+00	1.61E-08	1.04E-04	0.00E+00	0.00E+00	1.04E-04
785	ALL	495106	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.54E-08	1.54E-08	1.54E-08	5.07E-05	0.00E+00	0.00E+00	0.00E+00	1.54E-08	9.98E-05	0.00E+00	0.00E+00	9.98E-05
786	ALL	495126	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.48E-08	1.48E-08	1.48E-08	4.85E-05	0.00E+00	0.00E+00	0.00E+00	1.48E-08	9.57E-05	0.00E+00	0.00E+00	9.57E-05
787	ALL	495146	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.42E-08	1.42E-08	1.42E-08	4.65E-05	0.00E+00	0.00E+00	0.00E+00	1.42E-08	9.19E-05	0.00E+00	0.00E+00	9.19E-05
788	ALL	495166	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.36E-08	1.36E-08	1.36E-08	4.47E-05	0.00E+00	0.00E+00	0.00E+00	1.36E-08	8.84E-05	0.00E+00	0.00E+00	8.84E-05
789	ALL	495186	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.32E-08	1.32E-08	1.32E-08	4.32E-05	0.00E+00	0.00E+00	0.00E+00	1.32E-08	8.53E-05	0.00E+00	0.00E+00	8.53E-05
790	ALL	495206	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.27E-08	1.27E-08	1.27E-08	4.17E-05	0.00E+00	0.00E+00	0.00E+00	1.27E-08	8.24E-05	0.00E+00	0.00E+00	8.24E-05
791	ALL	495226	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.23E-08	1.23E-08	1.23E-08	4.03E-05	0.00E+00	0.00E+00	0.00E+00	1.23E-08	7.96E-05	0.00E+00	0.00E+00	7.96E-05
792	ALL	495246	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.18E-08	1.18E-08	1.18E-08	3.88E-05	0.00E+00	0.00E+00	0.00E+00	1.18E-08	7.68E-05	0.00E+00	0.00E+00	7.68E-05
793	ALL	495266	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.15E-08	1.15E-08	1.15E-08	3.76E-05	0.00E+00	0.00E+00	0.00E+00	1.15E-08	7.43E-05	0.00E+00	0.00E+00	7.43E-05
794	ALL	495286	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.11E-08	1.11E-08	1.11E-08	3.64E-05	0.00E+00	0.00E+00	0.00E+00	1.11E-08	7.19E-05	0.00E+00	0.00E+00	7.19E-05
795	ALL	495306	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.07E-08	1.07E-08	1.07E-08	3.52E-05	0.00E+00	0.00E+00	0.00E+00	1.07E-08	6.96E-05	0.00E+00	0.00E+00	6.96E-05
796	ALL	495326	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.04E-08	1.04E-08	1.04E-08	3.41E-05	0.00E+00	0.00E+00	0.00E+00	1.04E-08	6.74E-05	0.00E+00	0.00E+00	6.74E-05
797	ALL	495346	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.01E-08	1.01E-08	1.01E-08	3.30E-05	0.00E+00	0.00E+00	0.00E+00	1.01E-08	6.52E-05	0.00E+00	0.00E+00	6.52E-05
798	ALL	495366	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	9.75E-09	9.75E-09	9.75E-09	3.19E-05	0.00E+00	0.00E+00	0.00E+00	9.75E-09	6.32E-05	0.00E+00	0.00E+00	6.32E-05
799	ALL	495386	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	9.46E-09	9.46E-09	9.46E-09	3.10E-05	0.00E+00	0.00E+00	0.00E+00	9.46E-09	6.13E-05	0.00E+00	0.00E+00	6.13E-05
800	ALL	495406	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	9.19E-09	9.19E-09	9.19E-09	3.01E-05	0.00E+00	0.00E+00	0.00E+00	9.19E-09	5.95E-05	0.00E+00	0.00E+00	5.95E-05
801	ALL	495426	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	8.93E-09	8.93E-09	8.93E-09	2.92E-05	0.00E+00	0.00E+00	0.00E+00	8.93E-09	5.78E-05	0.00E+00	0.00E+00	5.78E-05
802	ALL	495446	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	8.69E-09	8.69E-09	8.69E-09	2.84E-05	0.00E+00	0.00E+00	0.00E+00	8.69E-09	5.62E-05	0.00E+00	0.00E+00	5.62E-05
803	ALL	495466	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	8.45E-09	8.45E-09	8.45E-09	2.76E-05	0.00E+00	0.00E+00	0.00E+00	8.45E-09	5.47E-05	0.00E+00	0.00E+00	5.47E-05
804	ALL	495486	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	8.22E-09	8.22E-09	8.22E-09	2.68E-05	0.00E+00	0.00E+00	0.00E+00	8.22E-09	5.32E-05	0.00E+00	0.00E+00	5.32E-05
805	ALL	495506	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	7.99E-09	7.99E-09	7.99E-09	2.61E-05	0.00E+00	0.00E+00	0.00E+00	7.99E-09	5.17E-05	0.00E+00	0.00E+00	5.17E-05
806	ALL	495526	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	7.78E-09	7.78E-09	7.78E-09	2.53E-05	0.00E+00	0.00E+00	0.00E+00	7.78E-09	5.02E-05	0.00E+00	0.00E+00	5.02E-05
807	ALL	495546	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	7.57E-09	7.57E-09	7.57E-09	2.46E-05	0.00E+00	0.00E+00	0.00E+00	7.57E-09	4.89E-05	0.00E+00	0.00E+00	4.89E-05
808	ALL	495566	3761816	NonCancer	0.00E+00	0.00E+00	0.00E+00	7.36E-09	7.36E-09	7.36E-09	2.39E-05	0.00E+00	0.00E+00	0.00E+00	7.36E-09	4.75E-05	0.00E+00	0.00E+00	4.75E-05
809	ALL	495126	3761836	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.42E-08	1.42E-08	1.42E-08	4.63E-05	0.00E+00	0.00E+00	0.00E+00	1.42E-08	9.14E-05	0.00E+00	0.00E+00	9.14E-05
810	ALL	495146	3761836	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.36E-08	1.36E-08	1.36E-08	4.44E-05	0.00E+00	0.00E+00	0.00E+00	1.36E-08	8.78E-05	0.00E+00	0.00E+00	8.78E-05
811	ALL	495166	3761836	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.31E-08	1.31E-08	1.31E-08	4.28E-05	0.00E+00	0.00E+00	0.00E+00	1.31E-08	8.45E-05	0.00E+00	0.00E+00	8.45E-05
812	ALL	495186	3761836	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.26E-08	1.26E-08	1.26E-08	4.13E-05	0.00E+00	0.00E+00	0.00E+00	1.26E-08	8.16E-05	0.00E+00	0.00E+00	8.16E-05
813	ALL	495206	3761836	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.22E-08	1.22E-08	1.22E-08	3.99E-05	0.00E+00	0.00E+00	0.00E+00	1.22E-08	7.87E-05	0.00E+00	0.00E+00	7.87E-05
814	ALL	495226	3761836	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.17E-08	1.17E-08	1.17E-08	3.84E-05	0.00E+00	0.00E+00	0.00E+00	1.17E-08	7.59E-05	0.00E+00	0.00E+00	7.59E-05
815	ALL	495366	3761836	NonCancer	0.00E+00	0.00E+00	0.00E+00	9.30E-09	9.30E-09	9.30E-09	3.06E-05	0.00E+00	0.00E+00	0.00E+00	9.30E-09	6.03E-05	0.00E+00	0.00E+00	6.03E-05
816	ALL	495386	3761836	NonCancer	0.00E+00	0.00E+00	0.00E+00	9.03E-09	9.03E-09	9.03E-09	2.97E-05	0.00E+00	0.00E+00	0.00E+00	9.03E-09	5.85E-05	0.00E+00	0.00E+00	5.85E-05
817	ALL	495406	3761836	NonCancer	0.00E+00	0.00E+00	0.00E+00	8.78E-09	8.78E-09	8.78E-09	2.89E-05	0.00E+00	0.00E+00	0.00E+00	8.78E-09	5.69E-05	0.00E+00	0.00E+00	5.69E-05
818	ALL	495426	3761836	NonCancer	0.00E+00	0.00E+00	0.00E+00	8.54E-09	8.54E-09	8.54E-09	2.81E-05	0.00E+00	0.00E+00	0.00E+00	8.54E-09	5.53E-05	0.00E+00	0.00E+00	5.53E-05
819	ALL	495446	3761836	NonCancer	0.00E+00	0.00E+00	0.00E+00	8.30E-09	8.30E-09	8.30E-09	2.73E-05	0.00E+00	0.00E+00	0.00E+00	8.30E-09	5.38E-05	0.00E+00	0.00E+00	5.38E-05
820	ALL	495466	3761836	NonCancer	0.00E+00	0.00E+00	0.00E+00	8.07E-09	8.07E-09	8.07E-09	2.66E-05	0.00E+00	0.00E+00	0.00E+00	8.07E-09	5.23E-05	0.00E+00	0.00E+00	5.23E-05
821	ALL	495486	3761836	NonCancer	0.00E+00	0.00E+00	0.00E+00	7.85E-09	7.85E-09	7.85E-09	2.58E-05	0.00E+00	0.00E+00	0.00E+00	7.85E-09	5.08E-05	0.00E+00	0.00E+00	5.08E-05
822	ALL	495506	3761836	NonCancer	0.00E+00	0.00E+00	0.00E+00	7.63E-09	7.63E-09	7.63E-09	2.51E-05	0.00E+00	0.00E+00	0.00E+00	7.63E-09	4.94E-05	0.00E+00	0.00E+00	4.94E-05
823	ALL	495526	3761836	NonCancer	0.00E+00	0.00E+00	0.00E+00	7.42E-09	7.42E-09	7.42E-09	2.44E-05	0.00E+00	0.00E+00	0.00E+00	7.42E-09	4.80E-05	0.00E+00	0.00E+00	4.80E-05
824	ALL	495546	3761836	NonCancer	0.00E+00	0.00E+00	0.00E+00	7.21E-09	7.21E-09	7.21E-09	2.37E-05	0.00E+00	0.00E+00	0.00E+00	7.21E-09	4.66E-05	0.00E+00	0.00E+00	4.66E-05
825	ALL	495566	3761836	NonCancer	0.00E+00	0.00E+00	0.00E+00	7.01E-09	7.01E-09	7.01E-09	2.30E-05	0.00E+00	0.00E+00	0.00E+00	7.01E-09	4.53E-05	0.00E+00	0.00E+00	4.53E-05
826	ALL	495126	3761856	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.36E-08	1.36E-08	1.36E-08	4.43E-05	0.00E+00	0.00E+00	0.00E+00	1.36E-08	8.75E-05	0.00E+00	0.00E+00	8.75E-05
827	ALL	495146	3761856	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.31E-08	1.31E-08	1.31E-08	4.25E-05	0.00E+00	0.00E+00	0.00E+00	1.31E-08	8.40E-05	0.00E+00	0.00E+00	8.40E-05
828	ALL	495166	3761856	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.26E-08	1.26E-08	1.26E-08	4.09E-05	0.00E+00	0.00E+00	0.00E+00	1.26E-08	8.09E-05	0.00E+00	0.00E+00	8.09E-05
829	ALL	495186	3761856	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.22E-08	1.22E-08	1.22E-08	3.96E-05	0.00E+00	0.00E+00	0.00E+00	1.22E-08	7.82E-05	0.00E+00	0.00E+00	7.82E-05
830	ALL	495206	3761856	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.17E-08	1.17E-08	1.17E-08	3.82E-05	0.00E+00	0.00E+00	0.00E+00	1.17E-08	7.54E-05	0.00E+00	0.00E+00	7.54E-05
831	ALL	495226	3761856	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.13E-08	1.13E-08	1.13E-08	3.68E-05	0.00E+00	0.00E+00	0.00E+00	1.13E-08	7.27E-05	0.00E+00	0.00E+00	7.27E-05

832	ALL	495386	3761856	NonCancer	0.00E+00	0.00E+00	0.00E+00	8.68E-09	8.68E-09	8.68E-09	2.86E-05	0.00E+00	0.00E+00	0.00E+00	8.68E-09	5.61E-05	0.00E+00	0.00E+00	5.61E-05
833	ALL	495406	3761856	NonCancer	0.00E+00	0.00E+00	0.00E+00	8.45E-09	8.45E-09	8.45E-09	2.79E-05	0.00E+00	0.00E+00	0.00E+00	8.45E-09	5.47E-05	0.00E+00	0.00E+00	5.47E-05
834	ALL	495426	3761856	NonCancer	0.00E+00	0.00E+00	0.00E+00	8.22E-09	8.22E-09	8.22E-09	2.71E-05	0.00E+00	0.00E+00	0.00E+00	8.22E-09	5.32E-05	0.00E+00	0.00E+00	5.32E-05
835	ALL	495446	3761856	NonCancer	0.00E+00	0.00E+00	0.00E+00	7.99E-09	7.99E-09	7.99E-09	2.64E-05	0.00E+00	0.00E+00	0.00E+00	7.99E-09	5.17E-05	0.00E+00	0.00E+00	5.17E-05
836	ALL	495466	3761856	NonCancer	0.00E+00	0.00E+00	0.00E+00	7.77E-09	7.77E-09	7.77E-09	2.57E-05	0.00E+00	0.00E+00	0.00E+00	7.77E-09	5.03E-05	0.00E+00	0.00E+00	5.03E-05
837	ALL	495486	3761856	NonCancer	0.00E+00	0.00E+00	0.00E+00	7.55E-09	7.55E-09	7.55E-09	2.50E-05	0.00E+00	0.00E+00	0.00E+00	7.55E-09	4.89E-05	0.00E+00	0.00E+00	4.89E-05
838	ALL	495506	3761856	NonCancer	0.00E+00	0.00E+00	0.00E+00	7.34E-09	7.34E-09	7.34E-09	2.43E-05	0.00E+00	0.00E+00	0.00E+00	7.34E-09	4.75E-05	0.00E+00	0.00E+00	4.75E-05
839	ALL	495526	3761856	NonCancer	0.00E+00	0.00E+00	0.00E+00	7.12E-09	7.12E-09	7.12E-09	2.36E-05	0.00E+00	0.00E+00	0.00E+00	7.12E-09	4.61E-05	0.00E+00	0.00E+00	4.61E-05
840	ALL	495546	3761856	NonCancer	0.00E+00	0.00E+00	0.00E+00	6.90E-09	6.90E-09	6.90E-09	2.28E-05	0.00E+00	0.00E+00	0.00E+00	6.90E-09	4.47E-05	0.00E+00	0.00E+00	4.47E-05
841	ALL	495566	3761856	NonCancer	0.00E+00	0.00E+00	0.00E+00	6.69E-09	6.69E-09	6.69E-09	2.21E-05	0.00E+00	0.00E+00	0.00E+00	6.69E-09	4.33E-05	0.00E+00	0.00E+00	4.33E-05
842	ALL	495126	3761876	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.31E-08	1.31E-08	1.31E-08	4.24E-05	0.00E+00	0.00E+00	0.00E+00	1.31E-08	8.39E-05	0.00E+00	0.00E+00	8.39E-05
843	ALL	495146	3761876	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.26E-08	1.26E-08	1.26E-08	4.07E-05	0.00E+00	0.00E+00	0.00E+00	1.26E-08	8.06E-05	0.00E+00	0.00E+00	8.06E-05
844	ALL	495166	3761876	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.21E-08	1.21E-08	1.21E-08	3.92E-05	0.00E+00	0.00E+00	0.00E+00	1.21E-08	7.76E-05	0.00E+00	0.00E+00	7.76E-05
845	ALL	495186	3761876	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.17E-08	1.17E-08	1.17E-08	3.79E-05	0.00E+00	0.00E+00	0.00E+00	1.17E-08	7.51E-05	0.00E+00	0.00E+00	7.51E-05
846	ALL	495206	3761876	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.13E-08	1.13E-08	1.13E-08	3.66E-05	0.00E+00	0.00E+00	0.00E+00	1.13E-08	7.24E-05	0.00E+00	0.00E+00	7.24E-05
847	ALL	495226	3761876	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.09E-08	1.09E-08	1.09E-08	3.53E-05	0.00E+00	0.00E+00	0.00E+00	1.09E-08	6.98E-05	0.00E+00	0.00E+00	6.98E-05
848	ALL	495386	3761876	NonCancer	0.00E+00	0.00E+00	0.00E+00	8.38E-09	8.38E-09	8.38E-09	2.76E-05	0.00E+00	0.00E+00	0.00E+00	8.38E-09	5.41E-05	0.00E+00	0.00E+00	5.41E-05
849	ALL	495406	3761876	NonCancer	0.00E+00	0.00E+00	0.00E+00	8.16E-09	8.16E-09	8.16E-09	2.69E-05	0.00E+00	0.00E+00	0.00E+00	8.16E-09	5.27E-05	0.00E+00	0.00E+00	5.27E-05
850	ALL	495426	3761876	NonCancer	0.00E+00	0.00E+00	0.00E+00	7.94E-09	7.94E-09	7.94E-09	2.62E-05	0.00E+00	0.00E+00	0.00E+00	7.94E-09	5.13E-05	0.00E+00	0.00E+00	5.13E-05
851	ALL	495446	3761876	NonCancer	0.00E+00	0.00E+00	0.00E+00	7.72E-09	7.72E-09	7.72E-09	2.56E-05	0.00E+00	0.00E+00	0.00E+00	7.72E-09	4.99E-05	0.00E+00	0.00E+00	4.99E-05
852	ALL	495466	3761876	NonCancer	0.00E+00	0.00E+00	0.00E+00	7.50E-09	7.50E-09	7.50E-09	2.49E-05	0.00E+00	0.00E+00	0.00E+00	7.50E-09	4.85E-05	0.00E+00	0.00E+00	4.85E-05
853	ALL	495486	3761876	NonCancer	0.00E+00	0.00E+00	0.00E+00	7.29E-09	7.29E-09	7.29E-09	2.42E-05	0.00E+00	0.00E+00	0.00E+00	7.29E-09	4.72E-05	0.00E+00	0.00E+00	4.72E-05
854	ALL	495506	3761876	NonCancer	0.00E+00	0.00E+00	0.00E+00	7.09E-09	7.09E-09	7.09E-09	2.35E-05	0.00E+00	0.00E+00	0.00E+00	7.09E-09	4.58E-05	0.00E+00	0.00E+00	4.58E-05
855	ALL	495526	3761876	NonCancer	0.00E+00	0.00E+00	0.00E+00	6.88E-09	6.88E-09	6.88E-09	2.28E-05	0.00E+00	0.00E+00	0.00E+00	6.88E-09	4.45E-05	0.00E+00	0.00E+00	4.45E-05
856	ALL	495546	3761876	NonCancer	0.00E+00	0.00E+00	0.00E+00	6.66E-09	6.66E-09	6.66E-09	2.21E-05	0.00E+00	0.00E+00	0.00E+00	6.66E-09	4.31E-05	0.00E+00	0.00E+00	4.31E-05
857	ALL	495566	3761876	NonCancer	0.00E+00	0.00E+00	0.00E+00	6.44E-09	6.44E-09	6.44E-09	2.14E-05	0.00E+00	0.00E+00	0.00E+00	6.44E-09	4.17E-05	0.00E+00	0.00E+00	4.17E-05
858	ALL	495126	3761896	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.26E-08	1.26E-08	1.26E-08	4.07E-05	0.00E+00	0.00E+00	0.00E+00	1.26E-08	8.06E-05	0.00E+00	0.00E+00	8.06E-05
859	ALL	495146	3761896	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.21E-08	1.21E-08	1.21E-08	3.91E-05	0.00E+00	0.00E+00	0.00E+00	1.21E-08	7.75E-05	0.00E+00	0.00E+00	7.75E-05
860	ALL	495166	3761896	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.17E-08	1.17E-08	1.17E-08	3.76E-05	0.00E+00	0.00E+00	0.00E+00	1.17E-08	7.46E-05	0.00E+00	0.00E+00	7.46E-05
861	ALL	495186	3761896	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.13E-08	1.13E-08	1.13E-08	3.64E-05	0.00E+00	0.00E+00	0.00E+00	1.13E-08	7.21E-05	0.00E+00	0.00E+00	7.21E-05
862	ALL	495206	3761896	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.09E-08	1.09E-08	1.09E-08	3.51E-05	0.00E+00	0.00E+00	0.00E+00	1.09E-08	6.96E-05	0.00E+00	0.00E+00	6.96E-05
863	ALL	495226	3761896	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.05E-08	1.05E-08	1.05E-08	3.39E-05	0.00E+00	0.00E+00	0.00E+00	1.05E-08	6.71E-05	0.00E+00	0.00E+00	6.71E-05
864	ALL	495386	3761896	NonCancer	0.00E+00	0.00E+00	0.00E+00	8.12E-09	8.12E-09	8.12E-09	2.66E-05	0.00E+00	0.00E+00	0.00E+00	8.12E-09	5.23E-05	0.00E+00	0.00E+00	5.23E-05
865	ALL	495406	3761896	NonCancer	0.00E+00	0.00E+00	0.00E+00	7.92E-09	7.92E-09	7.92E-09	2.60E-05	0.00E+00	0.00E+00	0.00E+00	7.92E-09	5.10E-05	0.00E+00	0.00E+00	5.10E-05
866	ALL	495426	3761896	NonCancer	0.00E+00	0.00E+00	0.00E+00	7.70E-09	7.70E-09	7.70E-09	2.54E-05	0.00E+00	0.00E+00	0.00E+00	7.70E-09	4.96E-05	0.00E+00	0.00E+00	4.96E-05
867	ALL	495446	3761896	NonCancer	0.00E+00	0.00E+00	0.00E+00	7.48E-09	7.48E-09	7.48E-09	2.47E-05	0.00E+00	0.00E+00	0.00E+00	7.48E-09	4.83E-05	0.00E+00	0.00E+00	4.83E-05
868	ALL	495466	3761896	NonCancer	0.00E+00	0.00E+00	0.00E+00	7.28E-09	7.28E-09	7.28E-09	2.41E-05	0.00E+00	0.00E+00	0.00E+00	7.28E-09	4.69E-05	0.00E+00	0.00E+00	4.69E-05
869	ALL	495486	3761896	NonCancer	0.00E+00	0.00E+00	0.00E+00	7.07E-09	7.07E-09	7.07E-09	2.34E-05	0.00E+00	0.00E+00	0.00E+00	7.07E-09	4.57E-05	0.00E+00	0.00E+00	4.57E-05
870	ALL	495506	3761896	NonCancer	0.00E+00	0.00E+00	0.00E+00	6.88E-09	6.88E-09	6.88E-09	2.28E-05	0.00E+00	0.00E+00	0.00E+00	6.88E-09	4.44E-05	0.00E+00	0.00E+00	4.44E-05
871	ALL	495526	3761896	NonCancer	0.00E+00	0.00E+00	0.00E+00	6.67E-09	6.67E-09	6.67E-09	2.22E-05	0.00E+00	0.00E+00	0.00E+00	6.67E-09	4.31E-05	0.00E+00	0.00E+00	4.31E-05
872	ALL	495546	3761896	NonCancer	0.00E+00	0.00E+00	0.00E+00	6.45E-09	6.45E-09	6.45E-09	2.15E-05	0.00E+00	0.00E+00	0.00E+00	6.45E-09	4.17E-05	0.00E+00	0.00E+00	4.17E-05
873	ALL	495566	3761896	NonCancer	0.00E+00	0.00E+00	0.00E+00	6.23E-09	6.23E-09	6.23E-09	2.07E-05	0.00E+00	0.00E+00	0.00E+00	6.23E-09	4.03E-05	0.00E+00	0.00E+00	4.03E-05
874	ALL	495586	3761896	NonCancer	0.00E+00	0.00E+00	0.00E+00	6.06E-09	6.06E-09	6.06E-09	2.02E-05	0.00E+00	0.00E+00	0.00E+00	6.06E-09	3.91E-05	0.00E+00	0.00E+00	3.91E-05
875	ALL	495126	3761916	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.22E-08	1.22E-08	1.22E-08	3.92E-05	0.00E+00	0.00E+00	0.00E+00	1.22E-08	7.75E-05	0.00E+00	0.00E+00	7.75E-05
876	ALL	495146	3761916	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.17E-08	1.17E-08	1.17E-08	3.77E-05	0.00E+00	0.00E+00	0.00E+00	1.17E-08	7.46E-05	0.00E+00	0.00E+00	7.46E-05
877	ALL	495166	3761916	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.13E-08	1.13E-08	1.13E-08	3.63E-05	0.00E+00	0.00E+00	0.00E+00	1.13E-08	7.19E-05	0.00E+00	0.00E+00	7.19E-05
878	ALL	495186	3761916	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.09E-08	1.09E-08	1.09E-08	3.51E-05	0.00E+00	0.00E+00	0.00E+00	1.09E-08	6.96E-05	0.00E+00	0.00E+00	6.96E-05
879	ALL	495206	3761916	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.05E-08	1.05E-08	1.05E-08	3.38E-05	0.00E+00	0.00E+00	0.00E+00	1.05E-08	6.71E-05	0.00E+00	0.00E+00	6.71E-05
880	ALL	495226	3761916	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.02E-08	1.02E-08	1.02E-08	3.26E-05	0.00E+00	0.00E+00	0.00E+00	1.02E-08	6.48E-05	0.00E+00	0.00E+00	6.48E-05
881	ALL	495386	3761916	NonCancer	0.00E+00	0.00E+00	0.00E+00	7.86E-09	7.86E-09	7.86E-09	2.56E-05	0.00E+00	0.00E+00	0.00E+00	7.86E-09	5.05E-05	0.00E+00	0.00E+00	5.05E-05
882	ALL	495406	3761916	NonCancer	0.00E+00	0.00E+00	0.00E+00	7.66E-09	7.66E-09	7.66E-09	2.51E-05	0.00E+00	0.00E+00	0.00E+00	7.66E-09	4.92E-05	0.00E+00	0.00E+00	4.92E-05
883	ALL	495426	3761916	NonCancer	0.00E+00	0.00E+00	0.00E+00	7.46E-09	7.46E-09	7.46E-09	2.45E-05	0.00E+00	0.00E+00	0.00E+00	7.46E-09	4.79E-05	0.00E+00	0.00E+00	4.79E-05

884	ALL	495446	3761916	NonCancer	0.00E+00	0.00E+00	0.00E+00	7.25E-09	7.25E-09	7.25E-09	2.38E-05	0.00E+00	0.00E+00	0.00E+00	7.25E-09	4.66E-05	0.00E+00	0.00E+00	4.66E-05
885	ALL	495466	3761916	NonCancer	0.00E+00	0.00E+00	0.00E+00	7.05E-09	7.05E-09	7.05E-09	2.32E-05	0.00E+00	0.00E+00	0.00E+00	7.05E-09	4.53E-05	0.00E+00	0.00E+00	4.53E-05
886	ALL	495486	3761916	NonCancer	0.00E+00	0.00E+00	0.00E+00	6.85E-09	6.85E-09	6.85E-09	2.26E-05	0.00E+00	0.00E+00	0.00E+00	6.85E-09	4.41E-05	0.00E+00	0.00E+00	4.41E-05
887	ALL	495506	3761916	NonCancer	0.00E+00	0.00E+00	0.00E+00	6.66E-09	6.66E-09	6.66E-09	2.20E-05	0.00E+00	0.00E+00	0.00E+00	6.66E-09	4.29E-05	0.00E+00	0.00E+00	4.29E-05
888	ALL	495526	3761916	NonCancer	0.00E+00	0.00E+00	0.00E+00	6.45E-09	6.45E-09	6.45E-09	2.14E-05	0.00E+00	0.00E+00	0.00E+00	6.45E-09	4.16E-05	0.00E+00	0.00E+00	4.16E-05
889	ALL	495546	3761916	NonCancer	0.00E+00	0.00E+00	0.00E+00	6.24E-09	6.24E-09	6.24E-09	2.07E-05	0.00E+00	0.00E+00	0.00E+00	6.24E-09	4.02E-05	0.00E+00	0.00E+00	4.02E-05
890	ALL	495566	3761916	NonCancer	0.00E+00	0.00E+00	0.00E+00	6.03E-09	6.03E-09	6.03E-09	2.01E-05	0.00E+00	0.00E+00	0.00E+00	6.03E-09	3.89E-05	0.00E+00	0.00E+00	3.89E-05
891	ALL	495586	3761916	NonCancer	0.00E+00	0.00E+00	0.00E+00	5.87E-09	5.87E-09	5.87E-09	1.95E-05	0.00E+00	0.00E+00	0.00E+00	5.87E-09	3.78E-05	0.00E+00	0.00E+00	3.78E-05
892	ALL	495126	3761936	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.17E-08	1.17E-08	1.17E-08	3.77E-05	0.00E+00	0.00E+00	0.00E+00	1.17E-08	7.45E-05	0.00E+00	0.00E+00	7.45E-05
893	ALL	495146	3761936	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.13E-08	1.13E-08	1.13E-08	3.63E-05	0.00E+00	0.00E+00	0.00E+00	1.13E-08	7.19E-05	0.00E+00	0.00E+00	7.19E-05
894	ALL	495166	3761936	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.09E-08	1.09E-08	1.09E-08	3.50E-05	0.00E+00	0.00E+00	0.00E+00	1.09E-08	6.93E-05	0.00E+00	0.00E+00	6.93E-05
895	ALL	495186	3761936	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.06E-08	1.06E-08	1.06E-08	3.39E-05	0.00E+00	0.00E+00	0.00E+00	1.06E-08	6.72E-05	0.00E+00	0.00E+00	6.72E-05
896	ALL	495206	3761936	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.02E-08	1.02E-08	1.02E-08	3.26E-05	0.00E+00	0.00E+00	0.00E+00	1.02E-08	6.48E-05	0.00E+00	0.00E+00	6.48E-05
897	ALL	495226	3761936	NonCancer	0.00E+00	0.00E+00	0.00E+00	9.84E-09	9.84E-09	9.84E-09	3.15E-05	0.00E+00	0.00E+00	0.00E+00	9.84E-09	6.26E-05	0.00E+00	0.00E+00	6.26E-05
898	ALL	495146	3761956	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.09E-08	1.09E-08	1.09E-08	3.50E-05	0.00E+00	0.00E+00	0.00E+00	1.09E-08	6.91E-05	0.00E+00	0.00E+00	6.91E-05
899	ALL	495166	3761956	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.05E-08	1.05E-08	1.05E-08	3.38E-05	0.00E+00	0.00E+00	0.00E+00	1.05E-08	6.68E-05	0.00E+00	0.00E+00	6.68E-05
900	ALL	495186	3761956	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.02E-08	1.02E-08	1.02E-08	3.27E-05	0.00E+00	0.00E+00	0.00E+00	1.02E-08	6.48E-05	0.00E+00	0.00E+00	6.48E-05
901	ALL	495206	3761956	NonCancer	0.00E+00	0.00E+00	0.00E+00	9.86E-09	9.86E-09	9.86E-09	3.16E-05	0.00E+00	0.00E+00	0.00E+00	9.86E-09	6.26E-05	0.00E+00	0.00E+00	6.26E-05
902	ALL	495226	3761956	NonCancer	0.00E+00	0.00E+00	0.00E+00	9.54E-09	9.54E-09	9.54E-09	3.05E-05	0.00E+00	0.00E+00	0.00E+00	9.54E-09	6.06E-05	0.00E+00	0.00E+00	6.06E-05
903	ALL	495146	3761976	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.05E-08	1.05E-08	1.05E-08	3.38E-05	0.00E+00	0.00E+00	0.00E+00	1.05E-08	6.65E-05	0.00E+00	0.00E+00	6.65E-05
904	ALL	495166	3761976	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.01E-08	1.01E-08	1.01E-08	3.26E-05	0.00E+00	0.00E+00	0.00E+00	1.01E-08	6.43E-05	0.00E+00	0.00E+00	6.43E-05
905	ALL	495186	3761976	NonCancer	0.00E+00	0.00E+00	0.00E+00	9.85E-09	9.85E-09	9.85E-09	3.16E-05	0.00E+00	0.00E+00	0.00E+00	9.85E-09	6.25E-05	0.00E+00	0.00E+00	6.25E-05
906	ALL	495206	3761976	NonCancer	0.00E+00	0.00E+00	0.00E+00	9.53E-09	9.53E-09	9.53E-09	3.05E-05	0.00E+00	0.00E+00	0.00E+00	9.53E-09	6.04E-05	0.00E+00	0.00E+00	6.04E-05
907	ALL	495226	3761976	NonCancer	0.00E+00	0.00E+00	0.00E+00	9.23E-09	9.23E-09	9.23E-09	2.95E-05	0.00E+00	0.00E+00	0.00E+00	9.23E-09	5.85E-05	0.00E+00	0.00E+00	5.85E-05
908	ALL	495146	3761996	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.01E-08	1.01E-08	1.01E-08	3.26E-05	0.00E+00	0.00E+00	0.00E+00	1.01E-08	6.40E-05	0.00E+00	0.00E+00	6.40E-05
909	ALL	495166	3761996	NonCancer	0.00E+00	0.00E+00	0.00E+00	9.78E-09	9.78E-09	9.78E-09	3.15E-05	0.00E+00	0.00E+00	0.00E+00	9.78E-09	6.19E-05	0.00E+00	0.00E+00	6.19E-05
910	ALL	495186	3761996	NonCancer	0.00E+00	0.00E+00	0.00E+00	9.50E-09	9.50E-09	9.50E-09	3.05E-05	0.00E+00	0.00E+00	0.00E+00	9.50E-09	6.02E-05	0.00E+00	0.00E+00	6.02E-05
911	ALL	495206	3761996	NonCancer	0.00E+00	0.00E+00	0.00E+00	9.20E-09	9.20E-09	9.20E-09	2.95E-05	0.00E+00	0.00E+00	0.00E+00	9.20E-09	5.83E-05	0.00E+00	0.00E+00	5.83E-05
912	ALL	495226	3761996	NonCancer	0.00E+00	0.00E+00	0.00E+00	8.91E-09	8.91E-09	8.91E-09	2.85E-05	0.00E+00	0.00E+00	0.00E+00	8.91E-09	5.65E-05	0.00E+00	0.00E+00	5.65E-05
913	ALL	495146	3762016	NonCancer	0.00E+00	0.00E+00	0.00E+00	9.71E-09	9.71E-09	9.71E-09	3.15E-05	0.00E+00	0.00E+00	0.00E+00	9.71E-09	6.15E-05	0.00E+00	0.00E+00	6.15E-05
914	ALL	495166	3762016	NonCancer	0.00E+00	0.00E+00	0.00E+00	9.41E-09	9.41E-09	9.41E-09	3.04E-05	0.00E+00	0.00E+00	0.00E+00	9.41E-09	5.96E-05	0.00E+00	0.00E+00	5.96E-05
915	ALL	495186	3762016	NonCancer	0.00E+00	0.00E+00	0.00E+00	9.15E-09	9.15E-09	9.15E-09	2.95E-05	0.00E+00	0.00E+00	0.00E+00	9.15E-09	5.79E-05	0.00E+00	0.00E+00	5.79E-05
916	ALL	495206	3762016	NonCancer	0.00E+00	0.00E+00	0.00E+00	8.86E-09	8.86E-09	8.86E-09	2.85E-05	0.00E+00	0.00E+00	0.00E+00	8.86E-09	5.61E-05	0.00E+00	0.00E+00	5.61E-05
917	ALL	495226	3762016	NonCancer	0.00E+00	0.00E+00	0.00E+00	8.60E-09	8.60E-09	8.60E-09	2.76E-05	0.00E+00	0.00E+00	0.00E+00	8.60E-09	5.44E-05	0.00E+00	0.00E+00	5.44E-05
918	ALL	495146	3762036	NonCancer	0.00E+00	0.00E+00	0.00E+00	9.34E-09	9.34E-09	9.34E-09	3.04E-05	0.00E+00	0.00E+00	0.00E+00	9.34E-09	5.92E-05	0.00E+00	0.00E+00	5.92E-05
919	ALL	495166	3762036	NonCancer	0.00E+00	0.00E+00	0.00E+00	9.06E-09	9.06E-09	9.06E-09	2.94E-05	0.00E+00	0.00E+00	0.00E+00	9.06E-09	5.74E-05	0.00E+00	0.00E+00	5.74E-05
920	ALL	495186	3762036	NonCancer	0.00E+00	0.00E+00	0.00E+00	8.80E-09	8.80E-09	8.80E-09	2.85E-05	0.00E+00	0.00E+00	0.00E+00	8.80E-09	5.57E-05	0.00E+00	0.00E+00	5.57E-05
921	ALL	495206	3762036	NonCancer	0.00E+00	0.00E+00	0.00E+00	8.53E-09	8.53E-09	8.53E-09	2.75E-05	0.00E+00	0.00E+00	0.00E+00	8.53E-09	5.40E-05	0.00E+00	0.00E+00	5.40E-05
922	ALL	495226	3762036	NonCancer	0.00E+00	0.00E+00	0.00E+00	8.28E-09	8.28E-09	8.28E-09	2.67E-05	0.00E+00	0.00E+00	0.00E+00	8.28E-09	5.24E-05	0.00E+00	0.00E+00	5.24E-05
923	ALL	495146	3762056	NonCancer	0.00E+00	0.00E+00	0.00E+00	9.00E-09	9.00E-09	9.00E-09	2.94E-05	0.00E+00	0.00E+00	0.00E+00	9.00E-09	5.70E-05	0.00E+00	0.00E+00	5.70E-05
924	ALL	495166	3762056	NonCancer	0.00E+00	0.00E+00	0.00E+00	8.73E-09	8.73E-09	8.73E-09	2.84E-05	0.00E+00	0.00E+00	0.00E+00	8.73E-09	5.53E-05	0.00E+00	0.00E+00	5.53E-05
925	ALL	495186	3762056	NonCancer	0.00E+00	0.00E+00	0.00E+00	8.48E-09	8.48E-09	8.48E-09	2.75E-05	0.00E+00	0.00E+00	0.00E+00	8.48E-09	5.37E-05	0.00E+00	0.00E+00	5.37E-05
926	ALL	495206	3762056	NonCancer	0.00E+00	0.00E+00	0.00E+00	8.22E-09	8.22E-09	8.22E-09	2.66E-05	0.00E+00	0.00E+00	0.00E+00	8.22E-09	5.20E-05	0.00E+00	0.00E+00	5.20E-05
927	ALL	495226	3762056	NonCancer	0.00E+00	0.00E+00	0.00E+00	7.98E-09	7.98E-09	7.98E-09	2.58E-05	0.00E+00	0.00E+00	0.00E+00	7.98E-09	5.05E-05	0.00E+00	0.00E+00	5.05E-05
928	ALL	494031.1	3761757	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.03E-08	4.03E-08	4.03E-08	8.69E-05	0.00E+00	0.00E+00	0.00E+00	4.03E-08	2.51E-04	0.00E+00	0.00E+00	2.51E-04
929	ALL	494022.5	3761743	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.02E-08	4.02E-08	4.02E-08	8.72E-05	0.00E+00	0.00E+00	0.00E+00	4.02E-08	2.50E-04	0.00E+00	0.00E+00	2.50E-04
930	ALL	494020.5	3761734	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.06E-08	4.06E-08	4.06E-08	8.81E-05	0.00E+00	0.00E+00	0.00E+00	4.06E-08	2.52E-04	0.00E+00	0.00E+00	2.52E-04
931	ALL	494013.4	3761724	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.04E-08	4.04E-08	4.04E-08	8.80E-05	0.00E+00	0.00E+00	0.00E+00	4.04E-08	2.50E-04	0.00E+00	0.00E+00	2.50E-04
932	ALL	494002.7	3761712	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.96E-08	3.96E-08	3.96E-08	8.71E-05	0.00E+00	0.00E+00	0.00E+00	3.96E-08	2.45E-04	0.00E+00	0.00E+00	2.45E-04
933	ALL	493991.6	3761703	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.85E-08	3.85E-08	3.85E-08	8.57E-05	0.00E+00	0.00E+00	0.00E+00	3.85E-08	2.38E-04	0.00E+00	0.00E+00	2.38E-04
934	ALL	493980.4	3761693	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.74E-08	3.74E-08	3.74E-08	8.44E-05	0.00E+00	0.00E+00	0.00E+00	3.74E-08	2.31E-04	0.00E+00	0.00E+00	2.31E-04
935	ALL	493969.8	3761686	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.62E-08	3.62E-08	3.62E-08	8.27E-05	0.00E+00	0.00E+00	0.00E+00	3.62E-08	2.24E-04	0.00E+00	0.00E+00	2.24E-04

936	ALL	493957.6	3761681	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.48E-08	3.48E-08	3.48E-08	8.06E-05	0.00E+00	0.00E+00	0.00E+00	3.48E-08	2.15E-04	0.00E+00	0.00E+00	2.15E-04
937	ALL	493943.9	3761674	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.32E-08	3.32E-08	3.32E-08	7.83E-05	0.00E+00	0.00E+00	0.00E+00	3.32E-08	2.06E-04	0.00E+00	0.00E+00	2.06E-04
938	ALL	493926.2	3761673	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.12E-08	3.12E-08	3.12E-08	7.49E-05	0.00E+00	0.00E+00	0.00E+00	3.12E-08	1.94E-04	0.00E+00	0.00E+00	1.94E-04
939	ALL	493913.5	3761671	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.99E-08	2.99E-08	2.99E-08	7.27E-05	0.00E+00	0.00E+00	0.00E+00	2.99E-08	1.86E-04	0.00E+00	0.00E+00	1.86E-04
940	ALL	493899.8	3761670	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.86E-08	2.86E-08	2.86E-08	7.04E-05	0.00E+00	0.00E+00	0.00E+00	2.86E-08	1.78E-04	0.00E+00	0.00E+00	1.78E-04
941	ALL	493832.4	3761639	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.33E-08	2.33E-08	2.33E-08	6.19E-05	0.00E+00	0.00E+00	0.00E+00	2.33E-08	1.45E-04	0.00E+00	0.00E+00	1.45E-04
942	ALL	493822.8	3761647	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.26E-08	2.26E-08	2.26E-08	6.01E-05	0.00E+00	0.00E+00	0.00E+00	2.26E-08	1.41E-04	0.00E+00	0.00E+00	1.41E-04
943	ALL	493811.1	3761658	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.19E-08	2.19E-08	2.19E-08	5.80E-05	0.00E+00	0.00E+00	0.00E+00	2.19E-08	1.36E-04	0.00E+00	0.00E+00	1.36E-04
944	ALL	493809.6	3761669	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.17E-08	2.17E-08	2.17E-08	5.72E-05	0.00E+00	0.00E+00	0.00E+00	2.17E-08	1.36E-04	0.00E+00	0.00E+00	1.36E-04
945	ALL	493817.7	3761682	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.22E-08	2.22E-08	2.22E-08	5.76E-05	0.00E+00	0.00E+00	0.00E+00	2.22E-08	1.38E-04	0.00E+00	0.00E+00	1.38E-04
946	ALL	493833.4	3761690	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.32E-08	2.32E-08	2.32E-08	5.93E-05	0.00E+00	0.00E+00	0.00E+00	2.32E-08	1.44E-04	0.00E+00	0.00E+00	1.44E-04
947	ALL	493853.7	3761695	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.45E-08	2.45E-08	2.45E-08	6.17E-05	0.00E+00	0.00E+00	0.00E+00	2.45E-08	1.52E-04	0.00E+00	0.00E+00	1.52E-04
948	ALL	493871.5	3761693	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.59E-08	2.59E-08	2.59E-08	6.43E-05	0.00E+00	0.00E+00	0.00E+00	2.59E-08	1.61E-04	0.00E+00	0.00E+00	1.61E-04
949	ALL	493888.2	3761693	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.73E-08	2.73E-08	2.73E-08	6.69E-05	0.00E+00	0.00E+00	0.00E+00	2.73E-08	1.69E-04	0.00E+00	0.00E+00	1.69E-04
950	ALL	493905.9	3761694	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.88E-08	2.88E-08	2.88E-08	6.97E-05	0.00E+00	0.00E+00	0.00E+00	2.88E-08	1.79E-04	0.00E+00	0.00E+00	1.79E-04
951	ALL	493920.6	3761695	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.03E-08	3.03E-08	3.03E-08	7.22E-05	0.00E+00	0.00E+00	0.00E+00	3.03E-08	1.88E-04	0.00E+00	0.00E+00	1.88E-04
952	ALL	493939.4	3761698	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.21E-08	3.21E-08	3.21E-08	7.53E-05	0.00E+00	0.00E+00	0.00E+00	3.21E-08	1.99E-04	0.00E+00	0.00E+00	1.99E-04
953	ALL	493959.6	3761707	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.42E-08	3.42E-08	3.42E-08	7.84E-05	0.00E+00	0.00E+00	0.00E+00	3.42E-08	2.12E-04	0.00E+00	0.00E+00	2.12E-04
954	ALL	493975.4	3761717	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.56E-08	3.56E-08	3.56E-08	8.04E-05	0.00E+00	0.00E+00	0.00E+00	3.56E-08	2.21E-04	0.00E+00	0.00E+00	2.21E-04
955	ALL	493983.5	3761726	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.62E-08	3.62E-08	3.62E-08	8.11E-05	0.00E+00	0.00E+00	0.00E+00	3.62E-08	2.24E-04	0.00E+00	0.00E+00	2.24E-04
956	ALL	493991.1	3761738	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.64E-08	3.64E-08	3.64E-08	8.11E-05	0.00E+00	0.00E+00	0.00E+00	3.64E-08	2.26E-04	0.00E+00	0.00E+00	2.26E-04
957	ALL	494001.2	3761754	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.65E-08	3.65E-08	3.65E-08	8.11E-05	0.00E+00	0.00E+00	0.00E+00	3.65E-08	2.28E-04	0.00E+00	0.00E+00	2.28E-04
958	ALL	493984.5	3761753	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.46E-08	3.46E-08	3.46E-08	7.79E-05	0.00E+00	0.00E+00	0.00E+00	3.46E-08	2.15E-04	0.00E+00	0.00E+00	2.15E-04
959	ALL	493980.4	3761747	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.46E-08	3.46E-08	3.46E-08	7.79E-05	0.00E+00	0.00E+00	0.00E+00	3.46E-08	2.15E-04	0.00E+00	0.00E+00	2.15E-04
960	ALL	493970.8	3761735	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.41E-08	3.41E-08	3.41E-08	7.75E-05	0.00E+00	0.00E+00	0.00E+00	3.41E-08	2.12E-04	0.00E+00	0.00E+00	2.12E-04
961	ALL	493953.6	3761728	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.25E-08	3.25E-08	3.25E-08	7.50E-05	0.00E+00	0.00E+00	0.00E+00	3.25E-08	2.02E-04	0.00E+00	0.00E+00	2.02E-04
962	ALL	493937.3	3761717	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.13E-08	3.13E-08	3.13E-08	7.31E-05	0.00E+00	0.00E+00	0.00E+00	3.13E-08	1.94E-04	0.00E+00	0.00E+00	1.94E-04
963	ALL	493921.1	3761715	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.97E-08	2.97E-08	2.97E-08	7.04E-05	0.00E+00	0.00E+00	0.00E+00	2.97E-08	1.84E-04	0.00E+00	0.00E+00	1.84E-04
964	ALL	493906.9	3761711	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.85E-08	2.85E-08	2.85E-08	6.84E-05	0.00E+00	0.00E+00	0.00E+00	2.85E-08	1.77E-04	0.00E+00	0.00E+00	1.77E-04
965	ALL	493887.2	3761711	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.68E-08	2.68E-08	2.68E-08	6.54E-05	0.00E+00	0.00E+00	0.00E+00	2.68E-08	1.67E-04	0.00E+00	0.00E+00	1.67E-04
966	ALL	493870.4	3761711	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.55E-08	2.55E-08	2.55E-08	6.29E-05	0.00E+00	0.00E+00	0.00E+00	2.55E-08	1.58E-04	0.00E+00	0.00E+00	1.58E-04
967	ALL	493857.8	3761711	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.46E-08	2.46E-08	2.46E-08	6.12E-05	0.00E+00	0.00E+00	0.00E+00	2.46E-08	1.53E-04	0.00E+00	0.00E+00	1.53E-04
968	ALL	493843.1	3761710	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.36E-08	2.36E-08	2.36E-08	5.93E-05	0.00E+00	0.00E+00	0.00E+00	2.36E-08	1.46E-04	0.00E+00	0.00E+00	1.46E-04
969	ALL	493829.4	3761710	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.27E-08	2.27E-08	2.27E-08	5.76E-05	0.00E+00	0.00E+00	0.00E+00	2.27E-08	1.41E-04	0.00E+00	0.00E+00	1.41E-04
970	ALL	493806.6	3761701	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.14E-08	2.14E-08	2.14E-08	5.53E-05	0.00E+00	0.00E+00	0.00E+00	2.14E-08	1.33E-04	0.00E+00	0.00E+00	1.33E-04
971	ALL	493799.5	3761684	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.11E-08	2.11E-08	2.11E-08	5.52E-05	0.00E+00	0.00E+00	0.00E+00	2.11E-08	1.31E-04	0.00E+00	0.00E+00	1.31E-04
972	ALL	493797.5	3761663	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.10E-08	2.10E-08	2.10E-08	5.59E-05	0.00E+00	0.00E+00	0.00E+00	2.10E-08	1.31E-04	0.00E+00	0.00E+00	1.31E-04
973	ALL	493779.7	3761668	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.00E-08	2.00E-08	2.00E-08	5.35E-05	0.00E+00	0.00E+00	0.00E+00	2.00E-08	1.25E-04	0.00E+00	0.00E+00	1.25E-04
974	ALL	493775.1	3761688	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.97E-08	1.97E-08	1.97E-08	5.22E-05	0.00E+00	0.00E+00	0.00E+00	1.97E-08	1.23E-04	0.00E+00	0.00E+00	1.23E-04
975	ALL	493782.8	3761700	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.00E-08	2.00E-08	2.00E-08	5.25E-05	0.00E+00	0.00E+00	0.00E+00	2.00E-08	1.25E-04	0.00E+00	0.00E+00	1.25E-04
976	ALL	493793.4	3761717	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.04E-08	2.04E-08	2.04E-08	5.29E-05	0.00E+00	0.00E+00	0.00E+00	2.04E-08	1.27E-04	0.00E+00	0.00E+00	1.27E-04
977	ALL	493809.1	3761731	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.11E-08	2.11E-08	2.11E-08	5.39E-05	0.00E+00	0.00E+00	0.00E+00	2.11E-08	1.31E-04	0.00E+00	0.00E+00	1.31E-04
978	ALL	493821.3	3761732	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.18E-08	2.18E-08	2.18E-08	5.52E-05	0.00E+00	0.00E+00	0.00E+00	2.18E-08	1.35E-04	0.00E+00	0.00E+00	1.35E-04
979	ALL	493843.6	3761731	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.32E-08	2.32E-08	2.32E-08	5.80E-05	0.00E+00	0.00E+00	0.00E+00	2.32E-08	1.44E-04	0.00E+00	0.00E+00	1.44E-04
980	ALL	493875	3761734	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.53E-08	2.53E-08	2.53E-08	6.19E-05	0.00E+00	0.00E+00	0.00E+00	2.53E-08	1.57E-04	0.00E+00	0.00E+00	1.57E-04
981	ALL	493883.6	3761733	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.60E-08	2.60E-08	2.60E-08	6.32E-05	0.00E+00	0.00E+00	0.00E+00	2.60E-08	1.61E-04	0.00E+00	0.00E+00	1.61E-04
982	ALL	493904.9	3761735	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.76E-08	2.76E-08	2.76E-08	6.62E-05	0.00E+00	0.00E+00	0.00E+00	2.76E-08	1.72E-04	0.00E+00	0.00E+00	1.72E-04
983	ALL	493928.7	3761736	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.97E-08	2.97E-08	2.97E-08	6.98E-05	0.00E+00	0.00E+00	0.00E+00	2.97E-08	1.84E-04	0.00E+00	0.00E+00	1.84E-04
984	ALL	493941.4	3761746	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.05E-08	3.05E-08	3.05E-08	7.10E-05	0.00E+00	0.00E+00	0.00E+00	3.05E-08	1.90E-04	0.00E+00	0.00E+00	1.90E-04
985	ALL	493954.1	3761758	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.11E-08	3.11E-08	3.11E-08	7.18E-05	0.00E+00	0.00E+00	0.00E+00	3.11E-08	1.94E-04	0.00E+00	0.00E+00	1.94E-04
986	ALL	493931.8	3761757	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.91E-08	2.91E-08	2.91E-08	6.83E-05	0.00E+00	0.00E+00	0.00E+00	2.91E-08	1.81E-04	0.00E+00	0.00E+00	1.81E-04
987	ALL	493915.5	3761755	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.78E-08	2.78E-08	2.78E-08	6.60E-05	0.00E+00	0.00E+00	0.00E+00	2.78E-08	1.73E-04	0.00E+00	0.00E+00	1.73E-04

988	ALL	493903.4	3761754	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.68E-08	2.68E-08	2.68E-08	6.43E-05	0.00E+00	0.00E+00	0.00E+00	2.68E-08	1.67E-04	0.00E+00	0.00E+00	1.67E-04
989	ALL	493888.7	3761754	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.57E-08	2.57E-08	2.57E-08	6.22E-05	0.00E+00	0.00E+00	0.00E+00	2.57E-08	1.60E-04	0.00E+00	0.00E+00	1.60E-04
990	ALL	493873	3761754	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.46E-08	2.46E-08	2.46E-08	6.01E-05	0.00E+00	0.00E+00	0.00E+00	2.46E-08	1.53E-04	0.00E+00	0.00E+00	1.53E-04
991	ALL	493851.7	3761754	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.31E-08	2.31E-08	2.31E-08	5.74E-05	0.00E+00	0.00E+00	0.00E+00	2.31E-08	1.44E-04	0.00E+00	0.00E+00	1.44E-04
992	ALL	493835.5	3761752	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.22E-08	2.22E-08	2.22E-08	5.56E-05	0.00E+00	0.00E+00	0.00E+00	2.22E-08	1.38E-04	0.00E+00	0.00E+00	1.38E-04
993	ALL	493818.7	3761751	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.12E-08	2.12E-08	2.12E-08	5.37E-05	0.00E+00	0.00E+00	0.00E+00	2.12E-08	1.32E-04	0.00E+00	0.00E+00	1.32E-04
994	ALL	493742.2	3761651	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.80E-08	1.80E-08	1.80E-08	4.97E-05	0.00E+00	0.00E+00	0.00E+00	1.80E-08	1.13E-04	0.00E+00	0.00E+00	1.13E-04
995	ALL	493742.2	3761665	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.80E-08	1.80E-08	1.80E-08	4.92E-05	0.00E+00	0.00E+00	0.00E+00	1.80E-08	1.12E-04	0.00E+00	0.00E+00	1.12E-04
996	ALL	493742.2	3761680	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.80E-08	1.80E-08	1.80E-08	4.86E-05	0.00E+00	0.00E+00	0.00E+00	1.80E-08	1.12E-04	0.00E+00	0.00E+00	1.12E-04
997	ALL	493746.3	3761695	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.81E-08	1.81E-08	1.81E-08	4.86E-05	0.00E+00	0.00E+00	0.00E+00	1.81E-08	1.13E-04	0.00E+00	0.00E+00	1.13E-04
998	ALL	493750.3	3761709	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.82E-08	1.82E-08	1.82E-08	4.85E-05	0.00E+00	0.00E+00	0.00E+00	1.82E-08	1.14E-04	0.00E+00	0.00E+00	1.14E-04
999	ALL	493754.9	3761721	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.84E-08	1.84E-08	1.84E-08	4.85E-05	0.00E+00	0.00E+00	0.00E+00	1.84E-08	1.14E-04	0.00E+00	0.00E+00	1.14E-04
1000	ALL	493757.9	3761733	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.84E-08	1.84E-08	1.84E-08	4.84E-05	0.00E+00	0.00E+00	0.00E+00	1.84E-08	1.15E-04	0.00E+00	0.00E+00	1.15E-04
1001	ALL	493772.1	3761750	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.88E-08	1.88E-08	1.88E-08	4.89E-05	0.00E+00	0.00E+00	0.00E+00	1.88E-08	1.17E-04	0.00E+00	0.00E+00	1.17E-04
1002	ALL	493760.4	3761749	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.83E-08	1.83E-08	1.83E-08	4.79E-05	0.00E+00	0.00E+00	0.00E+00	1.83E-08	1.14E-04	0.00E+00	0.00E+00	1.14E-04
1003	ALL	493749.3	3761749	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.78E-08	1.78E-08	1.78E-08	4.69E-05	0.00E+00	0.00E+00	0.00E+00	1.78E-08	1.11E-04	0.00E+00	0.00E+00	1.11E-04
1004	ALL	493730.5	3761749	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.70E-08	1.70E-08	1.70E-08	4.52E-05	0.00E+00	0.00E+00	0.00E+00	1.70E-08	1.06E-04	0.00E+00	0.00E+00	1.06E-04
1005	ALL	493705.7	3761747	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.60E-08	1.60E-08	1.60E-08	4.31E-05	0.00E+00	0.00E+00	0.00E+00	1.60E-08	1.00E-04	0.00E+00	0.00E+00	1.00E-04
1006	ALL	493712.8	3761771	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.60E-08	1.60E-08	1.60E-08	4.26E-05	0.00E+00	0.00E+00	0.00E+00	1.60E-08	9.94E-05	0.00E+00	0.00E+00	9.94E-05
1007	ALL	493739.7	3761768	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.71E-08	1.71E-08	1.71E-08	4.50E-05	0.00E+00	0.00E+00	0.00E+00	1.71E-08	1.06E-04	0.00E+00	0.00E+00	1.06E-04
1008	ALL	493757.4	3761769	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.78E-08	1.78E-08	1.78E-08	4.65E-05	0.00E+00	0.00E+00	0.00E+00	1.78E-08	1.11E-04	0.00E+00	0.00E+00	1.11E-04
1009	ALL	493780.2	3761771	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.88E-08	1.88E-08	1.88E-08	4.85E-05	0.00E+00	0.00E+00	0.00E+00	1.88E-08	1.17E-04	0.00E+00	0.00E+00	1.17E-04
1010	ALL	493801.5	3761770	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.98E-08	1.98E-08	1.98E-08	5.06E-05	0.00E+00	0.00E+00	0.00E+00	1.98E-08	1.24E-04	0.00E+00	0.00E+00	1.24E-04
1011	ALL	493830.9	3761773	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.13E-08	2.13E-08	2.13E-08	5.35E-05	0.00E+00	0.00E+00	0.00E+00	2.13E-08	1.33E-04	0.00E+00	0.00E+00	1.33E-04
1012	ALL	493850.7	3761774	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.25E-08	2.25E-08	2.25E-08	5.58E-05	0.00E+00	0.00E+00	0.00E+00	2.25E-08	1.40E-04	0.00E+00	0.00E+00	1.40E-04
1013	ALL	493872.5	3761774	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.39E-08	2.39E-08	2.39E-08	5.85E-05	0.00E+00	0.00E+00	0.00E+00	2.39E-08	1.49E-04	0.00E+00	0.00E+00	1.49E-04
1014	ALL	493893.8	3761777	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.53E-08	2.53E-08	2.53E-08	6.11E-05	0.00E+00	0.00E+00	0.00E+00	2.53E-08	1.58E-04	0.00E+00	0.00E+00	1.58E-04
1015	ALL	493908.5	3761776	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.64E-08	2.64E-08	2.64E-08	6.32E-05	0.00E+00	0.00E+00	0.00E+00	2.64E-08	1.65E-04	0.00E+00	0.00E+00	1.65E-04
1016	ALL	493926.2	3761780	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.76E-08	2.76E-08	2.76E-08	6.54E-05	0.00E+00	0.00E+00	0.00E+00	2.76E-08	1.72E-04	0.00E+00	0.00E+00	1.72E-04
1017	ALL	493937.8	3761779	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.86E-08	2.86E-08	2.86E-08	6.72E-05	0.00E+00	0.00E+00	0.00E+00	2.86E-08	1.79E-04	0.00E+00	0.00E+00	1.79E-04
1018	ALL	493952.5	3761780	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.98E-08	2.98E-08	2.98E-08	6.93E-05	0.00E+00	0.00E+00	0.00E+00	2.98E-08	1.86E-04	0.00E+00	0.00E+00	1.86E-04
1019	ALL	493967.8	3761780	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.13E-08	3.13E-08	3.13E-08	7.18E-05	0.00E+00	0.00E+00	0.00E+00	3.13E-08	1.95E-04	0.00E+00	0.00E+00	1.95E-04
1020	ALL	493975.4	3761784	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.18E-08	3.18E-08	3.18E-08	7.26E-05	0.00E+00	0.00E+00	0.00E+00	3.18E-08	1.99E-04	0.00E+00	0.00E+00	1.99E-04
1021	ALL	493989.5	3761780	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.34E-08	3.34E-08	3.34E-08	7.55E-05	0.00E+00	0.00E+00	0.00E+00	3.34E-08	2.09E-04	0.00E+00	0.00E+00	2.09E-04
1022	ALL	494000.2	3761782	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.45E-08	3.45E-08	3.45E-08	7.72E-05	0.00E+00	0.00E+00	0.00E+00	3.45E-08	2.16E-04	0.00E+00	0.00E+00	2.16E-04
1023	ALL	494014.9	3761785	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.59E-08	3.59E-08	3.59E-08	7.95E-05	0.00E+00	0.00E+00	0.00E+00	3.59E-08	2.25E-04	0.00E+00	0.00E+00	2.25E-04
1024	ALL	494027.1	3761786	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.74E-08	3.74E-08	3.74E-08	8.18E-05	0.00E+00	0.00E+00	0.00E+00	3.74E-08	2.34E-04	0.00E+00	0.00E+00	2.34E-04
1025	ALL	494049.4	3761786	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.02E-08	4.02E-08	4.02E-08	8.62E-05	0.00E+00	0.00E+00	0.00E+00	4.02E-08	2.51E-04	0.00E+00	0.00E+00	2.51E-04
1026	ALL	494066.1	3761786	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.26E-08	4.26E-08	4.26E-08	8.99E-05	0.00E+00	0.00E+00	0.00E+00	4.26E-08	2.66E-04	0.00E+00	0.00E+00	2.66E-04
1027	ALL	494171.4	3761821	NonCancer	0.00E+00	0.00E+00	0.00E+00	5.62E-08	5.62E-08	5.62E-08	1.08E-04	0.00E+00	0.00E+00	0.00E+00	5.62E-08	3.52E-04	0.00E+00	0.00E+00	3.52E-04
1028	ALL	494176.5	3761841	NonCancer	0.00E+00	0.00E+00	0.00E+00	5.31E-08	5.31E-08	5.31E-08	1.03E-04	0.00E+00	0.00E+00	0.00E+00	5.31E-08	3.33E-04	0.00E+00	0.00E+00	3.33E-04
1029	ALL	494171.4	3761886	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.43E-08	4.43E-08	4.43E-08	9.05E-05	0.00E+00	0.00E+00	0.00E+00	4.43E-08	2.78E-04	0.00E+00	0.00E+00	2.78E-04
1030	ALL	494831.5	3761815	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.98E-08	2.98E-08	2.98E-08	1.07E-04	0.00E+00	0.00E+00	0.00E+00	2.98E-08	1.92E-04	0.00E+00	0.00E+00	1.92E-04
1031	ALL	494846.3	3761570	NonCancer	0.00E+00	0.00E+00	0.00E+00	6.18E-08	6.18E-08	6.18E-08	2.65E-04	0.00E+00	0.00E+00	0.00E+00	6.18E-08	3.97E-04	0.00E+00	0.00E+00	3.97E-04
1032	ALL	494859.8	3761515	NonCancer	0.00E+00	0.00E+00	0.00E+00	5.72E-08	5.72E-08	5.72E-08	2.67E-04	0.00E+00	0.00E+00	0.00E+00	5.72E-08	3.68E-04	0.00E+00	0.00E+00	3.68E-04
1033	ALL	494839.6	3761452	NonCancer	0.00E+00	0.00E+00	0.00E+00	5.18E-08	5.18E-08	5.18E-08	3.43E-04	0.00E+00	0.00E+00	0.00E+00	5.18E-08	3.38E-04	0.00E+00	0.00E+00	3.43E-04
1034	ALL	494863.6	3761459	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.96E-08	4.96E-08	4.96E-08	2.87E-04	0.00E+00	0.00E+00	0.00E+00	4.96E-08	3.22E-04	0.00E+00	0.00E+00	3.22E-04
1035	ALL	494888	3761461	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.67E-08	4.67E-08	4.67E-08	2.49E-04	0.00E+00	0.00E+00	0.00E+00	4.67E-08	3.02E-04	0.00E+00	0.00E+00	3.02E-04
1036	ALL	494935.8	3761473	NonCancer	0.00E+00	0.00E+00	0.00E+00	4.20E-08	4.20E-08	4.20E-08	1.95E-04	0.00E+00	0.00E+00	0.00E+00	4.20E-08	2.71E-04	0.00E+00	0.00E+00	2.71E-04
1037	ALL	494961.9	3761422	NonCancer	0.00E+00	0.00E+00	0.00E+00	3.53E-08	3.53E-08	3.53E-08	1.92E-04	0.00E+00	0.00E+00	0.00E+00	3.53E-08	2.28E-04	0.00E+00	0.00E+00	2.28E-04
1038	ALL	494996.5	3761368	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.85E-08	2.85E-08	2.85E-08	1.78E-04	0.00E+00	0.00E+00	0.00E+00	2.85E-08	1.85E-04	0.00E+00	0.00E+00	1.85E-04
1039	ALL	494991.5	3761327	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.59E-08	2.59E-08	2.59E-08	1.83E-04	0.00E+00	0.00E+00	0.00E+00	2.59E-08	1.68E-04	0.00E+00	0.00E+00	1.83E-04

1040	ALL	495039.8	3761351	NonCancer	0.00E+00	0.00E+00	0.00E+00	2.56E-08	2.56E-08	2.56E-08	1.56E-04	0.00E+00	0.00E+00	0.00E+00	2.56E-08	1.65E-04	0.00E+00	0.00E+00	1.65E-04
1041	ALL	495133.9	3761336	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.84E-08	1.84E-08	1.84E-08	1.10E-04	0.00E+00	0.00E+00	0.00E+00	1.84E-08	1.18E-04	0.00E+00	0.00E+00	1.18E-04
1042	ALL	495229.3	3761326	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.61E-08	1.61E-08	1.61E-08	9.12E-05	0.00E+00	0.00E+00	0.00E+00	1.61E-08	1.05E-04	0.00E+00	0.00E+00	1.05E-04
1043	ALL	495414.8	3761335	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.34E-08	1.34E-08	1.34E-08	6.26E-05	0.00E+00	0.00E+00	0.00E+00	1.34E-08	8.55E-05	0.00E+00	0.00E+00	8.55E-05
1044	ALL	495539.8	3761406	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.20E-08	1.20E-08	1.20E-08	4.85E-05	0.00E+00	0.00E+00	0.00E+00	1.20E-08	7.61E-05	0.00E+00	0.00E+00	7.61E-05
1045	ALL	495545.2	3761698	NonCancer	0.00E+00	0.00E+00	0.00E+00	9.96E-09	9.96E-09	9.96E-09	3.01E-05	0.00E+00	0.00E+00	0.00E+00	9.96E-09	6.29E-05	0.00E+00	0.00E+00	6.29E-05
1046	ALL	495576.1	3761784	NonCancer	0.00E+00	0.00E+00	0.00E+00	7.85E-09	7.85E-09	7.85E-09	2.49E-05	0.00E+00	0.00E+00	0.00E+00	7.85E-09	5.03E-05	0.00E+00	0.00E+00	5.03E-05
1047	ALL	495589.5	3761934	NonCancer	0.00E+00	0.00E+00	0.00E+00	5.70E-09	5.70E-09	5.70E-09	1.90E-05	0.00E+00	0.00E+00	0.00E+00	5.70E-09	3.67E-05	0.00E+00	0.00E+00	3.67E-05
1048	ALL	495387.9	3761934	NonCancer	0.00E+00	0.00E+00	0.00E+00	7.63E-09	7.63E-09	7.63E-09	2.48E-05	0.00E+00	0.00E+00	0.00E+00	7.63E-09	4.89E-05	0.00E+00	0.00E+00	4.89E-05
1049	ALL	495359.7	3761828	NonCancer	0.00E+00	0.00E+00	0.00E+00	9.57E-09	9.57E-09	9.57E-09	3.14E-05	0.00E+00	0.00E+00	0.00E+00	9.57E-09	6.20E-05	0.00E+00	0.00E+00	6.20E-05
1050	ALL	495237.4	3761820	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.19E-08	1.19E-08	1.19E-08	3.91E-05	0.00E+00	0.00E+00	0.00E+00	1.19E-08	7.72E-05	0.00E+00	0.00E+00	7.72E-05
1051	ALL	495237.4	3762073	NonCancer	0.00E+00	0.00E+00	0.00E+00	7.62E-09	7.62E-09	7.62E-09	2.47E-05	0.00E+00	0.00E+00	0.00E+00	7.62E-09	4.82E-05	0.00E+00	0.00E+00	4.82E-05
1052	ALL	495127.2	3762069	NonCancer	0.00E+00	0.00E+00	0.00E+00	9.05E-09	9.05E-09	9.05E-09	2.97E-05	0.00E+00	0.00E+00	0.00E+00	9.05E-09	5.74E-05	0.00E+00	0.00E+00	5.74E-05
1053	ALL	495124.5	3761819	NonCancer	0.00E+00	0.00E+00	0.00E+00	1.48E-08	1.48E-08	1.48E-08	4.84E-05	0.00E+00	0.00E+00	0.00E+00	1.48E-08	9.55E-05	0.00E+00	0.00E+00	9.55E-05

Appendix B

General Biological Resources Assessment

Sandalwood Commercial Development Project and Finance Map

General Biological Resources Assessment

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ACRONYMS AND ABBREVIATIONS

AMSL	Above Mean Sea Level
APN	Assessor's Parcel Number
BUOW	Burrowing Owl
CASSA	Criteria Area Species Survey Area
CBB	Crotch's Bumble Bee
CDFW	California Department of Fish and Wildlife
CEQA	California Environmental Quality Act
CESA	California Endangered Species Act
City	City of Calimesa
CNDDB	California Natural Diversity Database
CNPS	California Native Plant Society
County	County of Riverside
CWA	Clean Water Act
DBESP	Determination of Biologically Equivalent or Superior Preservation
FESA	Federal Endangered Species Act
FGC	California Fish and Game Code
HANS	Habitat Acquisition and Negotiation Strategy
HCP	Habitat Conservation Plan
HELIX	HELIX Environmental Planning, Inc.
I-	Interstate
JPR	Joint Project Review
LDMF	Local Development Mitigation Fee
LSA	Lake or Streambed Alteration
MBTA	Migratory Bird Treaty Act
MND	Mitigated Negative Declaration
MSHCP	Western Riverside County Multiple Species Habitat Conservation Plan
NCCP	Natural Communities Conservation Plan
NEPSSA	Narrow Endemic Plant Species Survey Area
NPPA	Native Plant Protection Act
NRCS	Natural Resources Conservation Service
OHWM	Ordinary High Water Mark

ACRONYMS AND ABBREVIATIONS (cont.)

PCL-project	Proposed Constrained Linkage Sandalwood Commercial Development and Finance Map
RCA	Regional Conservation Authority
ROW	Right-of-Way
RWQCB	Regional Water Quality Control Board
S	State
SKR	Stephens' Kangaroo Rat
SSC	Species of Special Concern
USACE	U.S. Army Corps of Engineers
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey

SUMMARY

The Sandalwood Commercial Development Project and Finance Map (project or proposed project) is located in the City of Calimesa (City), Riverside County (County), California. The approximate 9.3-acre on-site project components evaluated in this report consist of two parcels (Assessor's Parcel Numbers [APN] 411-210-006 and -024) plus an additional 1.9-acre off-site right-of-way area, for a total 11.2-acre project site. The project consists of a proposed subdivision of APN 411-210-024, which would subdivide the two parcels into three separate parcels (proposed Parcels 1 through 3). No development is proposed within the northern Parcel 1 or Parcel 2, which are collectively referred to in this report as the Northern Parcels. However, Parcels 1 and 2 are still subject to the entitlement approval referred to as a Finance Map, which is associated with the subdivision approval process. The only physical development proposed on any of the three parcels is the commercial development (Sandalwood Commercial Development) located within the southernmost parcel, referred to as Parcel 3.

Under prior environmental review and regulatory permits, the project site was graded in 2009, and no other work has occurred in the project site since 2009. Grading included impacts to jurisdictional resources and Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP) Riparian/Riverine Areas. Because the prior project received Section 1602 approval from the California Department of Fish and Wildlife (CDFW) via Operation of Law, mitigation requirements for impacts to CDFW jurisdiction were likely described in the Notification of Lake or Streambed Alteration (LSA). The project proponent involved with the prior project and associated approvals is deceased, and the current landowner and CDFW are unable to locate the LSA to verify the required mitigation for the prior project. Additionally, the documentation of mitigation implementation cannot be located. A Determination of Biologically Equivalent or Superior Preservation (DBESP) and appropriate mitigation would also have been required. However, a DBESP cannot be located by the landowner, Regional Conservation Authority (RCA), or the Wildlife Agencies (collectively, CDFW and U.S. Fish and Wildlife Service [USFWS]). Given that mitigation requirements and implementation cannot be verified, the current Project Proponent has been coordinating with the landowner, the Wildlife Agencies, and the Rivers and Lands Conservancy, and has identified a mitigation approach to compensate for prior project impacts to CDFW jurisdiction and MSHCP Riparian/Riverine Areas. Based on this coordination, an after-the-fact DBESP was also prepared to demonstrate that the proposed mitigation provides equivalent or superior preservation for prior impacts that occurred on the project site. No mitigation was required by U.S. Army Corps of Engineers in the Section 404 Nationwide Permit, and Regional Water Quality Control Board (RWQCB) determined no action would be taken in the Section 401 Water Quality Certification.

The project site is located within the Pass Area Plan of the MSHCP. The northern, northeastern, and western portions of the project site fall within the northeastern corner of Cell 323, and the southern and southeastern portions of the project site fall within the northwest-central portion of Cell 326. Because the proposed project is located within MSHCP Criteria Cells, the project is subject to the Habitat Acquisition and Negotiation Strategy (HANS) process with the City, followed by the Joint Project Review (JPR) process with the RCA and the Wildlife Agencies to verify that the project is consistent with MSHCP and conservation goals. Given that the project site does not encompass areas targeted for conservation, the project will not conflict with the conservation criteria described for Cells 323 and 326. A HANS application was submitted to the City in August 2022, and the JPR application was submitted to the RCA in September 2022. The Project Proponent is working to respond to JPR comments from RCA, which includes submitting an after-the-fact DBESP. After RCA issues its consistency findings, the Wildlife Agencies will perform their own joint review and provide their comments or concurrence with RCA's

findings. Under the City's direction, JPR processing, including RCA and Wildlife Agencies approval of the DBESP, will be completed before the Final Mitigated Negative Declaration is prepared.

The project site is located within an MSHCP Narrow Endemic Plant Species Survey Area and burrowing owl (*Athene cunicularia*; BUOW) Survey Area. HELIX Environmental Planning, Inc. conducted a general biological survey, including vegetation mapping and a general habitat assessment; Step I and Step II BUOW surveys; a Crotch's bumble bee (*Bombus crotchii*; CBB) habitat assessment; a jurisdictional assessment; and an MSHCP Riparian/Riverine and Vernal Pool habitat assessment.

The project site is dominated by wild oats and annual brome grasslands, and the site appears to be mowed or disced on a regular basis. A small area of Peruvian pepper trees (*Schinus molle*) was noted along the eastern project site boundary. The western boundary of the project site consists of a paved right-of-way associated with 7th Street.

The project site does not support suitable habitat for rare plant species (including MSHCP Narrow Endemic Plant Species Survey Area species), and no sensitive plant communities were observed. Potentially suitable BUOW habitat and one suitable burrow and one burrow surrogate were observed in the project site; however, BUOW or BUOW sign were not detected during the focused survey. A CBB habitat assessment was performed in the project site, and no suitable habitat was observed. The project site also supports suitable habitat for nesting migratory bird species. No jurisdictional features regulated by the U.S. Army Corps of Engineers, the RWQCB, or the California Department of Fish and Wildlife were observed on the project site during the jurisdictional assessment. There are currently no Riparian/Riverine or Vernal Pool resources in the project site as defined by the MSHCP. The project site does not function as a regional wildlife corridor because it does not directly connect large blocks of habitat. The project site is not identified by the MSHCP (County 2003) as being part of a local or regional corridor or linkage; the nearest linkage is Proposed Constrained Linkage 23, approximately 0.25 mile south of the project site. Some wildlife may use the project site for foraging and/or nesting, but the use of the project site is restricted due to limited vegetative cover, adjacent disturbance from existing human development, and Interstate 10 to the east.

The project would permanently impact approximately 4.5 acres (3.8 acres on-site, 0.7 acre off-site) and temporarily impact 0.4 acre (off-site only) of the project site, including wild oats and annual brome grassland, pepper tree grove, existing developed areas, and disturbed habitat. Potential significant impacts were identified for BUOW (if present during the 30-day pre-construction survey) and nesting bird species. The project is required to comply with the regulations of the MSHCP. No development is proposed on the Northern Parcels, although the southern portion of Parcel 2 will be temporarily impacted by over-excavation during construction of the Sandalwood Commercial Development. Measures have been incorporated into the proposed project to avoid and/or minimize impacts to biological resources, including the following: BUOW, migratory nesting bird species, mitigation for 2009 impacts to CDFW jurisdictional streambed and MSHCP Riparian/Riverine Areas, consistency with MSHCP landscaping restrictions, and payment of MSHCP Local Mitigation Development Fees. The successful implementation of these measures would mitigate potential impacts to below a level of significance.

1.0 INTRODUCTION

1.1 PURPOSE OF THE REPORT

The Sandalwood Commercial Development Project and Finance Map (project or proposed project) is located in the City of Calimesa (City), Riverside County (County), California. The project consists of a proposed subdivision of two parcels (Assessor's Parcel Numbers [APN] 411-210-006 and -024) into three separate parcels (Parcels 1 through 3), with a proposed commercial development (Sandalwood Commercial Development) on the southernmost parcel (Parcel 3). The approximate 9.3-acre project site evaluated in this report consists of two parcels (Assessor's Parcel Numbers [APN] 411-210-006 and -024) plus an additional 1.9-acre off-site right-of-way (ROW) area, for a total 11.2-acre project site.

This report provides the City (California Environmental Quality Act [CEQA] lead agency), resource agencies, and the public with current biological data to satisfy the review of the proposed project. The purpose of this report is to document the existing biological conditions on and in the immediate vicinity of the project and provide an analysis of potential direct or indirect impacts to sensitive biological resources with respect to local, State, and federal policy. This report provides the biological resources technical documentation necessary for project review under CEQA by the City and demonstrates consistency with the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP; County 2003).

1.2 PROJECT LOCATION

The project site is generally located west of Interstate (I) 10 and north of Sandalwood Drive (Figure 1, *Regional Location*). The project site is within Section 14 of Township 2 South, Range 2 West on the U.S. Geological Survey (USGS) 7.5-minute El Casco quadrangle (Figure 2, *USGS Topography*). The project site is bordered by 7th Street to the west and I-10 to the east (Figure 3, *Aerial Photograph*). It is located approximately 400 feet north of the intersection of 7th Street and Sandalwood Drive.

1.3 PROPOSED PROJECT

The project consists of a proposed subdivision of APN 411-210-024, which would be subdivided into three separate parcels (proposed Parcels 1 through 3; Figure 4, *Proposed Parcel Map*). Proposed Parcel 1 (3.0 acres) would include the northern portion of APN 411-210-024 in addition to APN -006. Proposed Parcel 2 (2.7 acres) and Parcel 3 (3.6 acres) encompass the central and southern portions of APN 411-210-024, respectively. No reasonably foreseeable future development is planned within the northern Parcel 1 or Parcel 2, which are collectively referred to in this report as the Northern Parcels. The project site also includes an additional 1.9-acre off-site right-of-way, for a total 11.2-acre project site.

A commercial development (Sandalwood Commercial Development) is proposed within the southern proposed Parcel 3 and off-site improvements. The approximately 4.5-acre (3.8 acres on-site, 0.7 acre off-site) proposed commercial development includes minor grading and construction of a truck stop. The truck stop would include four multi-product dispensers, a convenience store with a drive-thru, a five-position diesel canopy, 44 standard parking stalls, three accessible parking stalls, 19 semi-truck/trailer parking stalls, and half-width road improvements within 7th Street (Figure 5, *Sandalwood Site Plan*). Off-site improvements include permanent impacts adjacent to the western project boundary to complete road improvements within 7th Street and install a v-ditch and temporary impacts along the

northern and western project boundaries to account for over-excavation during grading. Temporary impacts for over-excavation during grading total 0.4 acre (0.1 acre on-site and 0.3 acre off-site). No development is proposed on the Northern Parcels, although the southern portion of Parcel 2 (0.1 acre) will be temporarily impacted by over-excavation during construction of the Sandalwood Commercial Development. The Northern Parcels are subject to the entitlement approval (referred to as a Finance Map).

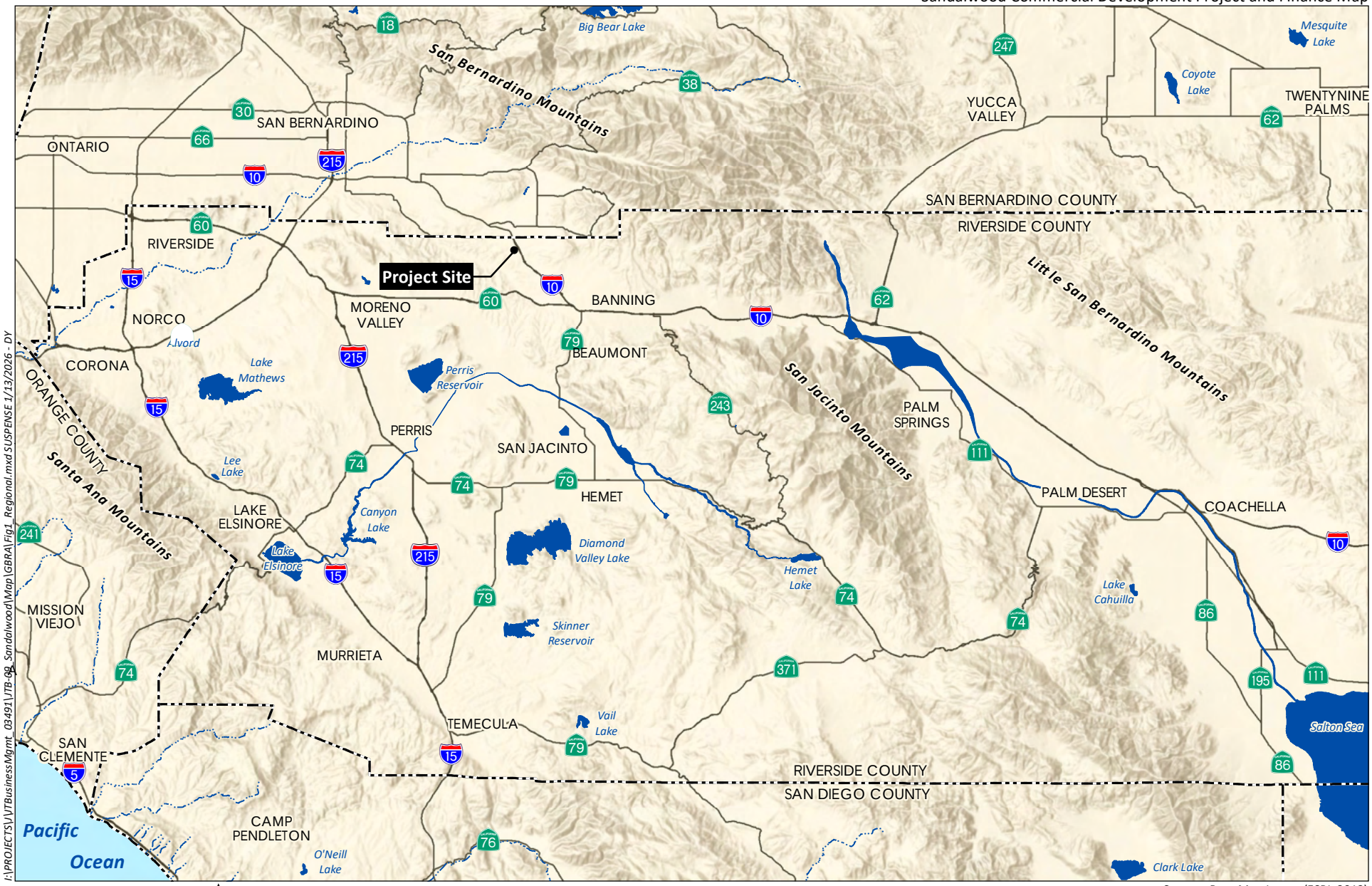
1.4 SITE HISTORY

A Mitigated Negative Declaration (MND) for *Rough Grading Permit for a 10-acre Parcel Located North of Sandalwood Drive on 7th Street* was adopted by the City in July 2007 (State Clearinghouse 2007031152). The MND evaluated the same on-site project site (i.e., APNs 411-210-006 and -024) assessed in this report. The prior project consisted of rough grading the on-site project site and implementing drainage improvements, which included the installation of subsurface storm drain infrastructure. The grading and drainage improvements required impacts to jurisdictional streambeds. Regulatory permits obtained for the drainage improvement project included a Section 404 Nationwide Permit issued by the U.S. Army Corps of Engineers (USACE) on January 30, 2008 (No. 2007-973-FBV) and Section 1602 approval by Operation of Law from the California Department of Fish and Wildlife (CDFW) on November 28, 2007 (Notification No. 1600-2007-0140-R6). On November 8, 2007, the Regional Water Quality Control Board (RWQCB) determined no action would be taken on the request for a Section 401 Water Quality Certification, and the USACE subsequently issued a waiver. The on-site project site was graded in 2009 as part of prior entitlements, and no other construction has occurred within the project site since 2009.

Because the prior project received Section 1602 approval from CDFW by Operation of Law, mitigation requirements for impacts to CDFW jurisdiction were likely described in the Notification of Lake or Streambed Alteration (LSA). The project proponent involved with the prior project and associated approvals is deceased, and the current landowner and CDFW are unable to locate the LSA to verify the required mitigation for the prior project and whether any mitigation was ever implemented. No mitigation was required by USACE in the Section 404 Nationwide Permit, and RWQCB determined no action would be taken in the Section 401 Water Quality Certification.

The project is located within the MSHCP Criteria Area; therefore, the prior project was also required to be assessed through the Habitat Acquisition and Negotiation Strategy (HANS) process and undergo a Joint Project Review (JPR) process with the RCA and the Wildlife Agencies to verify the project's consistency with MSHCP Reserve Assembly goals and other applicable MSHCP policies. Although a HANS application was prepared by ECORP Consulting, Inc. in August 2007, the landowner is unable to locate documentation that the HANS process or JPR was completed. The prior project also impacted drainages that met the definition of MSHCP Riparian/Riverine Areas; therefore, a Determination of Biologically Equivalent or Superior Preservation (DBESP) and appropriate mitigation would also have been required. Similar to JPR documentation, a DBESP also cannot be located by the landowner, Regional Conservation Authority (RCA), or the Wildlife Agencies (i.e., CDFW and U.S. Fish and Wildlife Service [USFWS]).

Given that mitigation requirements and implementation cannot be verified, the current Project Proponent has been coordinating with the landowner, Wildlife Agencies, and Rivers and Lands Conservancy, and has identified a mitigation approach to compensate for the prior project impacts to CDFW jurisdiction and MSHCP Riparian/Riverine Areas. An after-the-fact DBESP was also prepared to demonstrate that the proposed mitigation provides equivalent or superior preservation for prior impacts that occurred on the project site (Appendix A, *Draft DBESP*). A HANS application was submitted



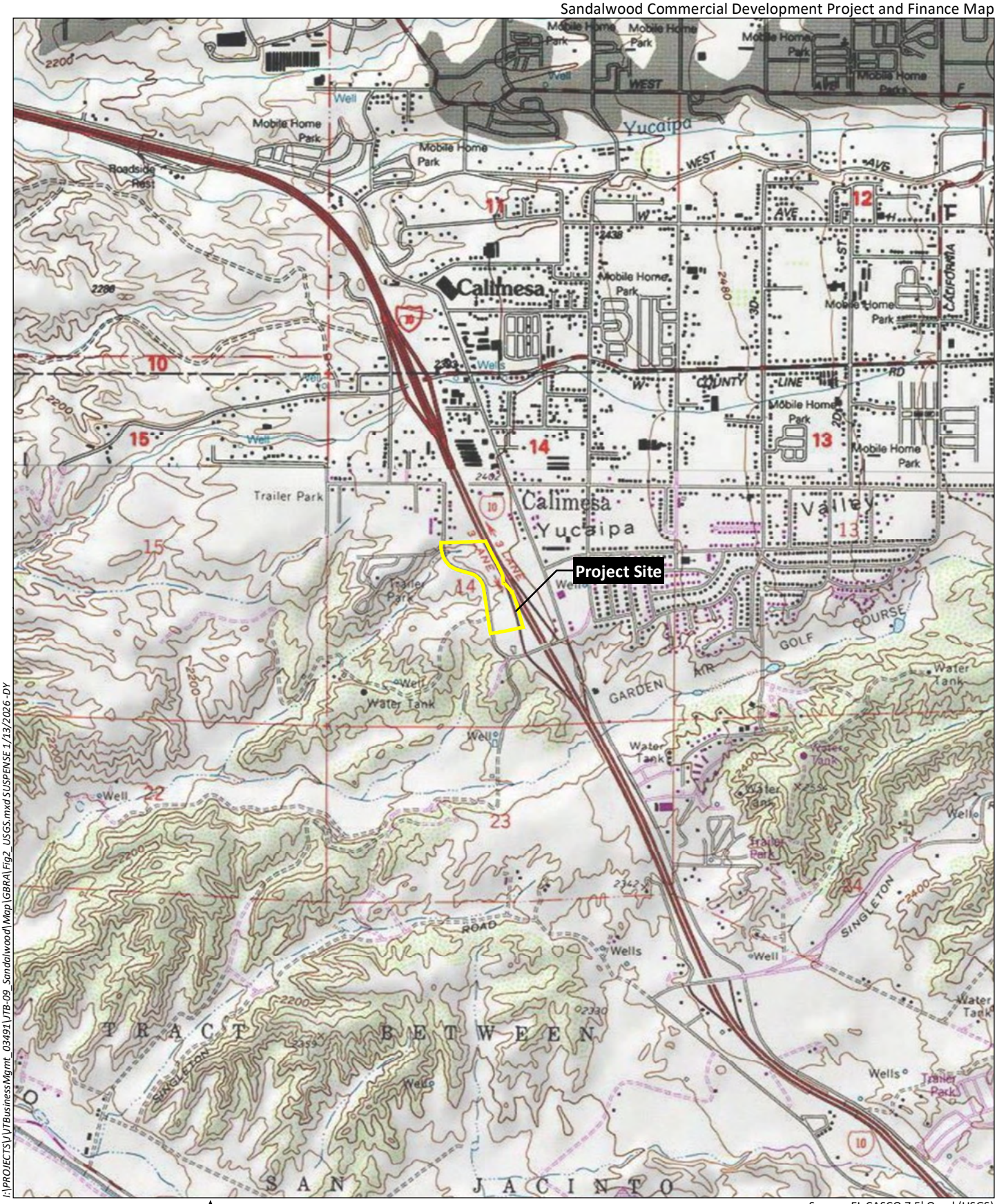
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Source: Base Map Layers (ESRI, 2013)

HELIX Environmental Planning

Regional Location

Figure 1



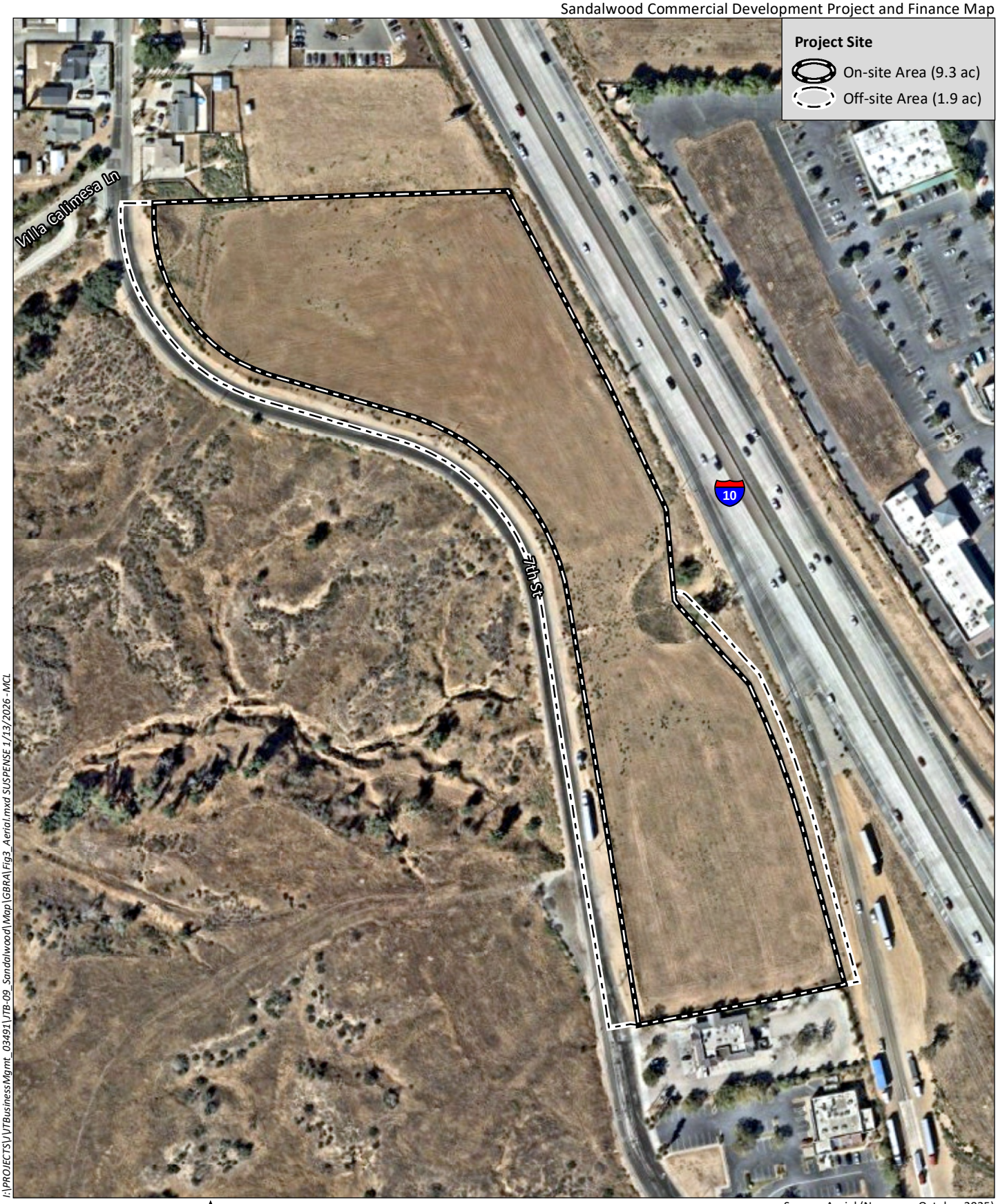
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Source: EL CASCO 7.5' Quad (USGS)

HELIX Environmental Planning

USGS Topography

Figure 2



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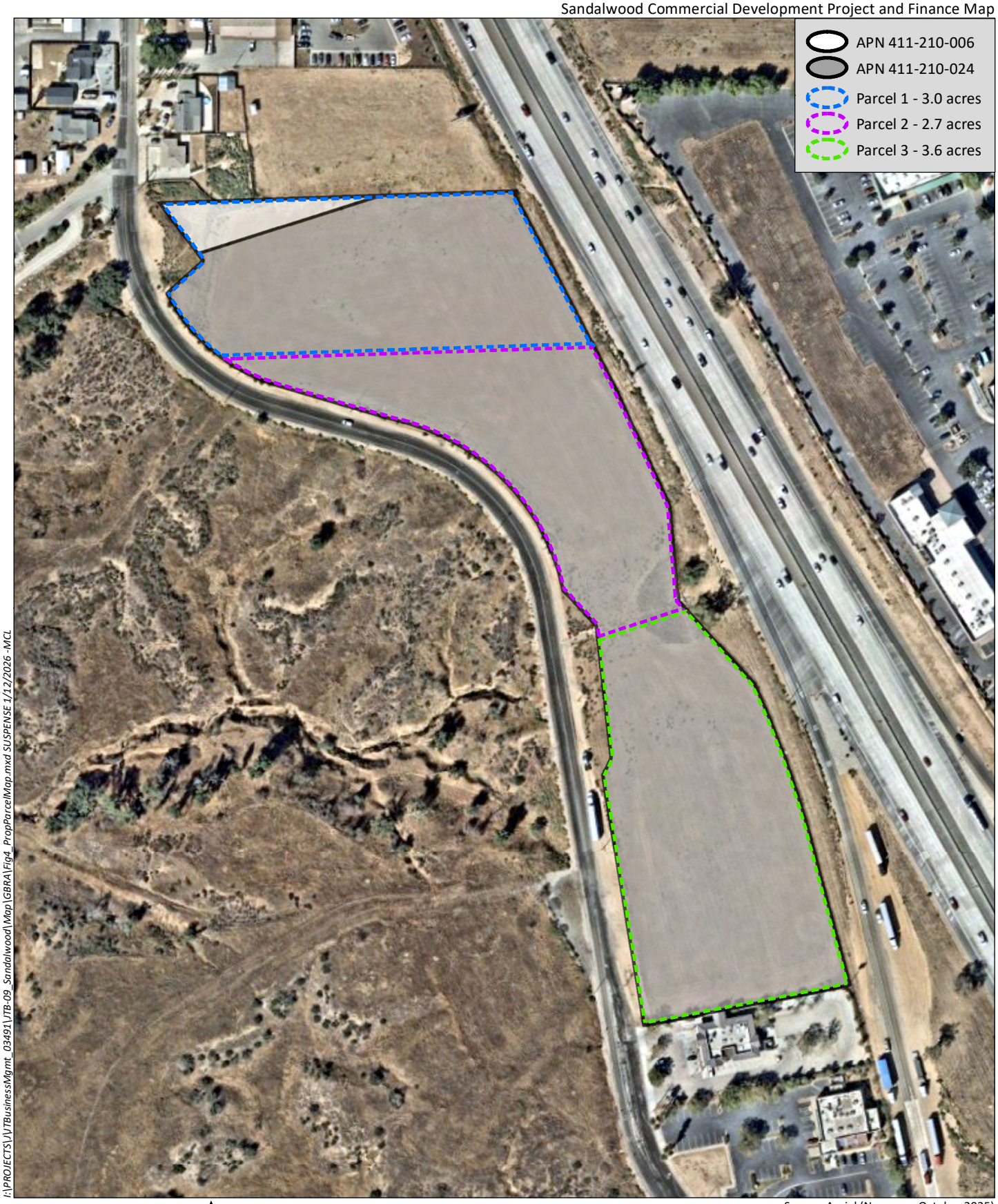
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Source: Aerial (Nearmap, October 2025)

HELIX Environmental Planning

Aerial Photograph

Figure 3



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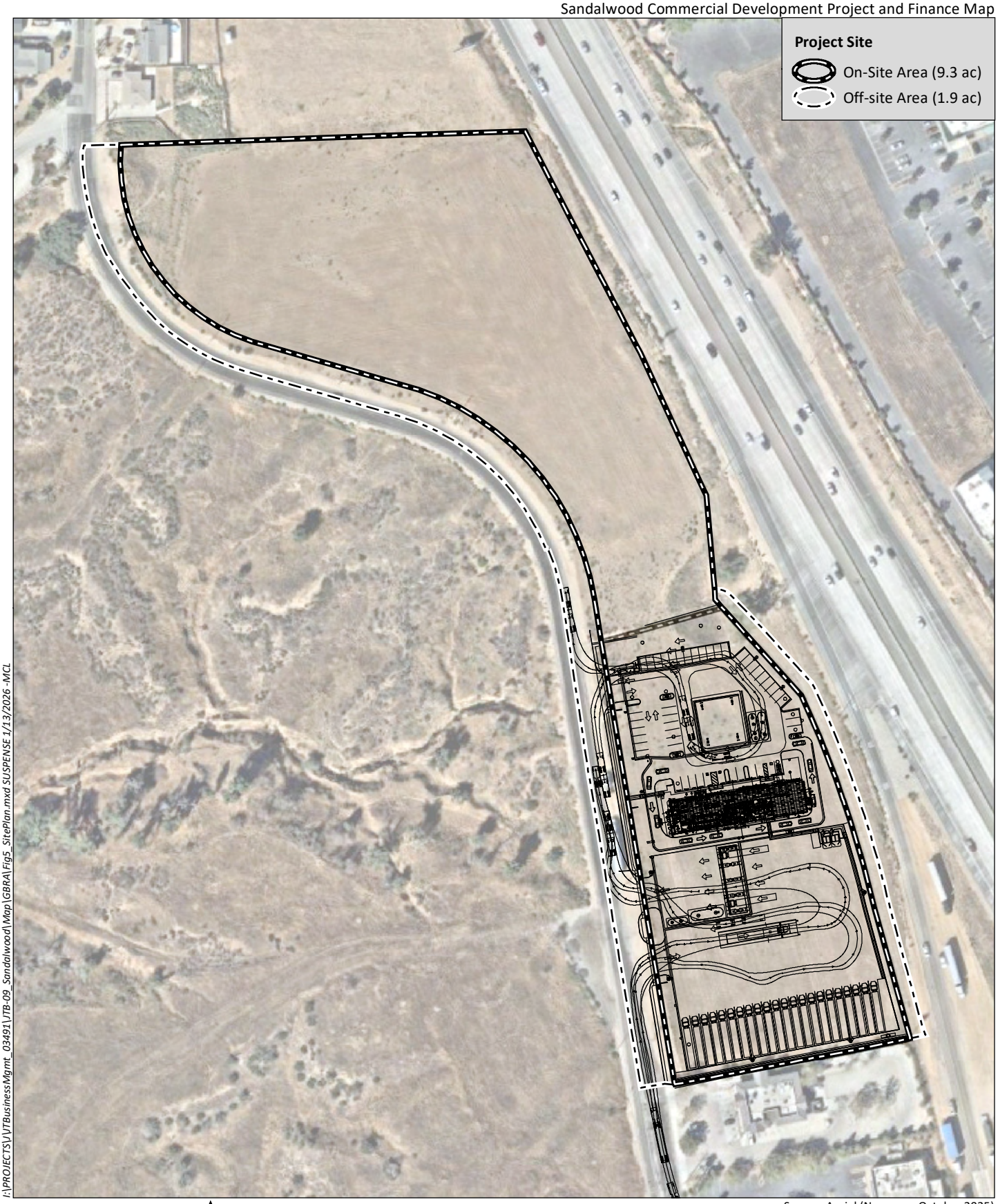
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Source: Aerial (Nearmap, October 2025)

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Proposed Parcel Map

Figure 4



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Source: Aerial (Nearmap, October 2025)

HELIX Environmental Planning

Sandalwood Site Plan

Figure 5

to the City in August 2022, and a JPR application was submitted to the RCA in September 2022, which assesses the entire project site and evaluates both the project impacts that occurred in 2009 and the impacts that are proposed by the current project. The Project Proponent is working to respond to JPR comments from RCA, which includes submitting an after-the-fact DBESP. After RCA issues its consistency findings, the Wildlife Agencies will perform their own joint review and provide their comments or concurrence with RCA's findings. Under the City's direction, JPR processing, including RCA and Wildlife Agencies approval of the DBESP, will be completed before the Final MND for the currently proposed project is prepared.

The focus of this report is to evaluate project impacts associated with the proposed Sandalwood Commercial Development Project and Finance Map, given that the prior project (Rough Grading Permit for a 10-acre Parcel Located North of Sandalwood Drive on 7th Street) impacts were evaluated in a previous MND that was adopted by the City in July 2007.

2.0 METHODS

The project evaluation included the following: a review of project plans; a literature review of biological resources occurring in the project site and surrounding vicinity; a general biological survey, including vegetation mapping and a general habitat assessment; Step I and Step II burrowing owl (*Athene cunicularia*; BUOW) surveys; a Crotch's bumble bee (*Bombus crotchii*; CBB) habitat assessment; a jurisdictional assessment; and an MSHCP Riparian/Riverine and Vernal Pool Resources assessment. The methods used to evaluate the biological resources present in the project site are discussed in this Methods section.

2.1 NOMENCLATURE

Nomenclature for this report follows Baldwin et al. (2012) for plants and the MSHCP (County 2003) for vegetation community classifications, with additional vegetation community information taken from Manual of California Vegetation, Second Edition (MCV; Sawyer et al. 2009) and Oberbauer (2008). Animal nomenclature follows Emmel and Emmel (1973) for butterflies, Center for North American Herpetology (Taggart 2016) for reptiles and amphibians, American Ornithologists' Society (2024) for birds, and Baker et al. (2003) for mammals. Rare plant and sensitive animal statuses are from the California Native Plant Society's (CNPS) Inventory of Rare and Endangered Plants of California (2024) and CDFW's California Natural Diversity Database (CNDDB; CDFW 2024). Rare plant species habitats and flowering periods are from the Jepson Manual (Baldwin et al. 2012), MSHCP (County 2003), CNPS (2024), and CNDDB (CDFW 2024). Soil classifications were obtained from the Natural Resources Conservation Service's (NRCS) Web Soil Survey (2024).

2.2 LITERATURE REVIEW

HELIX Environmental Planning, Inc. (HELIX) reviewed Google Earth aerials (2022), Web Soil Survey (NRCS 2024), and sensitive species database records, including the Inventory of Rare and Endangered Plants of California (CNPS 2024), CNDDB (CDFW 2024), and USFWS critical habitat maps (2024a). A two-quadrangle database search was conducted on CNDDB and CNPS, which included the following quadrangles: El Casco and Yucaipa. In addition, the MSHCP (County 2003) and the RCA MSHCP Information Tool (RCA 2024) were consulted to determine project consistency with the MSHCP.

2.3 FIELD SURVEYS

Field surveys were conducted to document the existing condition of the project site and surrounding lands. The general biological survey included vegetation mapping, during which dominant plant species were noted. Step I and Step II BUOW surveys were conducted. A CBB habitat assessment was also conducted. A jurisdictional assessment was conducted to determine if resources were present under the jurisdiction of the USACE, RWQCB, and/or CDFW. A habitat assessment was also conducted in the project site to determine habitat suitability for rare plant and animal species, in addition to MSHCP Riparian/Riverine and Vernal Pool Species.

The lists of plant and animal species observed and/or detected during the field surveys are provided in Appendix B, *Plant Species Observed*, and Appendix C, *Animal Species Observed and/or Detected*. Animal species recorded were identified by direct observation, vocalizations, or the observance of scat, tracks, or other signs. However, the list of animal species identified is not necessarily a comprehensive account of all species that use the project site, as species that are nocturnal, secretive, or seasonally restricted may not have been observed.

2.3.1 General Biological Survey

A general biological survey of the project site was conducted by HELIX Biologist and Senior Regulatory Specialist Ezekiel Cooley on November 6, 2020, and Biologist Lauren Singleton on December 21, 2020. An updated general biological survey of the entire project site was conducted by Ms. Singleton and HELIX Biologists Jessica Lee and Cache Tucker on April 22, 2022. Existing conditions were also reverified during the 2024 BUOW and CBB surveys (refer to Section 2.3.2 below). Vegetation was mapped on a 125-foot (1 inch = 125 feet) aerial photograph of the project site and in accordance with vegetation community classification described in Section 2.1.3 of the MSHCP (County 2003) and with additional information from MCV (Sawyer et al. 2009) and Oberbauer (2008). Vegetation communities and land uses were mapped by HELIX to one-tenth of an acre (0.1 acre). The entire project site was surveyed on foot with the aid of binoculars. Representative photographs of the project site were taken, with select photographs included in this report in Appendix D, *Site Photographs*. Plant and animal species observed or otherwise detected were recorded in field notebooks. Animal identifications were made in the field by direct, visual observation or indirectly by detection of calls, burrows, tracks, or scat. Plant identifications were made in the field or in the lab through comparison with voucher specimens or photographs.

2.3.2 Focused Species Surveys

2.3.2.1 Burrowing Owl

The project site is within an MSHCP BUOW Survey Area. In accordance with the County's survey protocol, a Step I habitat assessment was conducted in the project site and within a 150-meter (approximately 500-foot) buffer zone around the periphery of the project site (survey area; RCA 2006). Mr. Tucker completed a Step I habitat assessment on July 24, 2024, during which potential suitable BUOW habitat was observed.

Step II surveys, which consist of a focused burrow survey (Part A) and focused BUOW surveys (Part B), were conducted to determine whether the survey area supports suitable burrows, burrow surrogates, and/or owls. The focused burrow survey and first focused BUOW survey visit were conducted

concurrently with the habitat assessment. Because one suitable burrow and one burrow surrogate were observed within the survey area, three additional focused BUOW surveys (for a total of four surveys) were conducted. The focused burrow survey and four BUOW surveys were conducted by Mr. Tucker and HELIX Biologist Nelly Moreno between July 24 and August 7, 2024. The biologists walked transects spaced no greater than 30 meters apart (approximately 100 feet) to allow for 100 percent visual coverage of all suitable habitat within the survey area. The biologists walked slowly and methodically, closely checking habitat for suitable burrows, burrow surrogates, BUOW diagnostic sign (e.g., molted feathers, pellets/castings, or whitewash at or near a burrow entrance), and individual BUOWs. Inaccessible areas of the survey area were visually assessed using binoculars. The BUOW survey findings are in Appendix E, *2024 BUOW Focused Survey Report.*

2.3.2.2 Crotch's Bumble Bee

Mr. Tucker performed a CBB habitat assessment on July 13, 2024, to determine if suitable habitat is present within the project site. In accordance with the *CDFW Survey Considerations for CESA Candidate Bumble Bee Species* (CDFW 2023a), the biologist mapped habitat alliances within the project site. The habitat alliances were classified following the *Manual of California Vegetation* (Sawyer et al. 2009). The biologist recorded the estimated absolute percent cover for individual species for each habitat alliance. In addition to foraging resources, potential nesting habitat (e.g., small mammal burrows, loose soil, bunch grasses, thatch, brush piles, old bird nests, and dead trees) were noted if observed during the assessment. The CBB habitat assessment findings are detailed in Appendix F, *CBB Habitat Assessment Report*.

2.3.3 Jurisdictional Assessment

Prior to beginning fieldwork, HELIX reviewed aerial photographs (1 inch = 125 feet), topographic maps (1 inch = 125 feet), USGS quadrangle maps, and National Wetlands Inventory maps (USFWS 2024b) to assist in determining the location of potential jurisdictional waters in the project site. Principal Regulatory Specialist Amir Morales conducted a jurisdictional assessment of the project site on May 12, 2021. Ms. Singleton conducted a jurisdictional assessment of the entire project site on April 22, 2022. The assessments were conducted to identify jurisdictional waters potentially subject to USACE jurisdiction pursuant to Section 404 of the Clean Water Act (CWA); RWQCB jurisdiction pursuant to Section 401 of the CWA and/or State Porter-Cologne Water Quality Control Act; and streambed habitats potentially subject to CDFW jurisdiction pursuant to Sections 1600 *et seq.* of the California Fish and Game Code (FGC). Data collection was targeted in areas deemed to have the potential to support jurisdictional resources, such as the presence of an ordinary high water mark (OHWM), the presence of a bed/bank and streambed associated vegetation, and/or other surface indications of streambed hydrology.

3.0 RESULTS

3.1 ENVIRONMENTAL SETTING

The project site has been used for agriculture since at least 1938 (Historic Aerials 2024) and was graded in 2009 for the purpose of implementing drainage improvements to support potential future development of the site. The project site is dominated by wild oats and annual brome grasslands, and the site appears to be mowed or disced on a regular basis. Non-native grasses in the project site

appeared to have been recently mowed before the November/December 2020 general biological survey, but were fully regrown during the April 2022 general biological survey. A small area of ornamental trees was noted along the eastern project site boundary, which consists of Peruvian pepper trees (*Schinus molle*). The western boundary of the project site consists of a paved ROW associated with 7th Street. Conditions documented in 2022 were consistent with those observed in 2024. The topography of the project site is mostly flat, with elevations ranging from approximately 2,380 feet (725 meters) above mean sea level (AMSL) near the northwestern corner of the project site to approximately 2,400 feet (732 meters) AMSL near the southeastern corner. Immediate surrounding land uses consist of commercial, industrial, and residential development to the north, south, and east, undeveloped land to the west, and I-10 directly adjacent to the eastern project site boundary.

The soils mapped in the project site include Ramona very fine sandy loam (0 to 8 percent slopes) and San Timoteo loam (25 to 50 percent slopes; NRCS 2024). The Ramona soil series consists of well-drained alluvium derived from granite. The San Timoteo soil series consists of well-drained marine deposits derived from mixed sources and/or residuum weathered from sandstone.

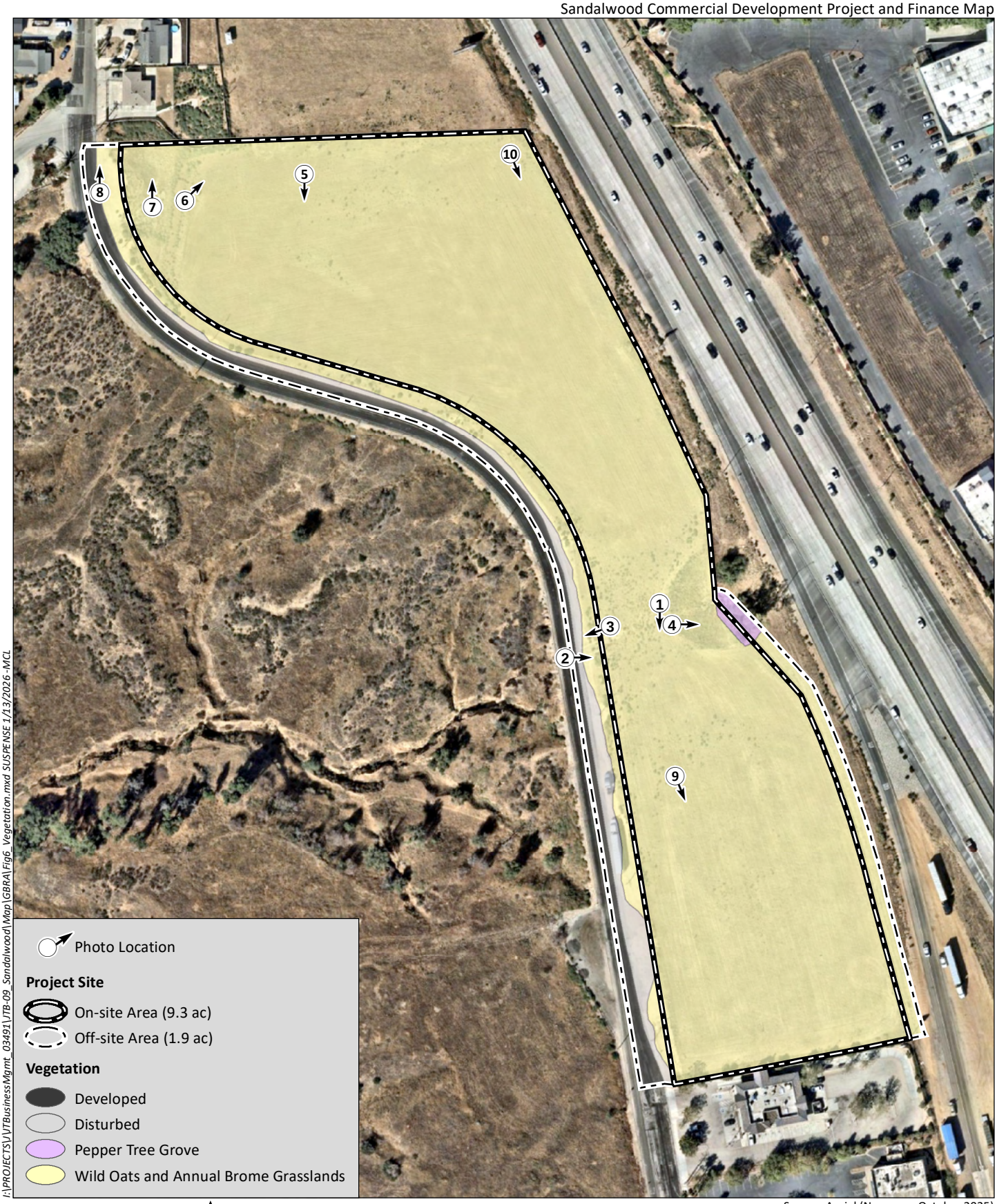
3.2 VEGETATION COMMUNITIES

Four vegetation communities/land uses were mapped in the project site, including wild oats and annual brome grasslands, developed, disturbed, and pepper tree grove (Table 1, *Vegetation and Land Uses*; Figure 6, *Vegetation and Land Uses*). The CDFW CaCodes and Oberbauer Element Codes are provided in parentheses next to each community name in Table 1. A brief description of each vegetation community and land uses mapped in the project site is provided below. Representative photos of the project site are provided as Appendix D, *Representative Site Photographs*.

Table 1
VEGETATION AND LAND USES

MSHCP Community Classification[1]		Manual of California Vegetation/Oberbauer	Project Site (Acres)[2]	
Collapsed	**Uncollapsed**		**On-site Area**	**Off-site Area**
Grassland	Non-native Grassland	Wild Oats and Annual Brome Grasslands (CaCode[3] 44.150.02)	9.2	1.0
Developed/ Disturbed Land	Developed (Residential)	Developed (O[4] 11300)	0.0	0.5
	Disturbed (Residential)	Disturbed (O 11300)	<0.1[5]	0.4
	Ornamental (Exotic)	Pepper Tree Grove (CaCode 79.200.00)	0.1	<0.1[6]
		TOTAL	**9.3**	**1.9**

[1] Collapsed and uncollapsed community classifications are terms from MSHCP Table 2-1.
[2] Acreages are rounded to the nearest tenth.
[3] CDFW CaCodes.
[4] Oberbauer Element Code.
[5] Actual acreage is 0.001 acre.
[6] Actual acreage is 0.036 acre.



Source: Aerial (Nearmap, October 2025)

HELIX Environmental Planning

Vegetation and Land Uses

Figure 6

3.2.1 Wild Oats and Annual Brome Grassland

Wild oats and annual brome grassland (non-native grassland under the MSHCP Community Classification) is a dense to sparse cover of annual grasses, often associated with numerous species of showy-flowered native annual forbs. Characteristic species include oats (*Avena* spp.), brome grasses (*Bromus* spp.), and mustards (*Brassica* spp., short-pod mustard [*Hirschfeldia incana*]). Most annual species within the non-native grassland originated from the Mediterranean region, an area with a long history of agriculture and a climate similar to California. Intensive grazing and agricultural practices combined with severe droughts in California contributed to the successful invasion and establishment of these species and the replacement of native grasslands with annual-dominated non-native grasslands (Jackson 1985).

Wild oats and annual brome grassland dominate the project site, with 9.2 acres within the on-site area and 1.0 acre within the off-site area. Annual grasses on the project site appear to be regularly mowed or disced throughout the year to reduce fuel load (i.e., fire risk). This plant community is dominated by slender oat (*Avena barbata*). Other non-native grass species observed include red brome (*Bromus rubens*) and common ripgut grass (*Bromus diandrus*), as well as other non-native annuals such as Russian thistle (*Salsola tragus*) and short-pod mustard. A small Gooding's black willow (*Salix gooddingii*) was observed at the very southern end of the project site, near the existing commercial development south of the project site. The individual willow is not associated with any streambed or other aquatic features.

3.2.2 Developed

Developed land is included under the Urban/Residential/Exotic classification in the MSHCP. This land use includes areas where permanent structures and/or pavement have been placed that prevent the growth of vegetation or where landscaping is clearly tended and maintained.

Developed land was observed along the western project site boundary, which comprises 0.5 acre within the off-site area. This area consists of an existing paved ROW associated with 7th Street.

3.2.3 Disturbed

Disturbed land is included under the Urban/Residential/Exotic classification in the MSHCP. This land use includes land containing a preponderance of non-native plant species, such as ornamentals or ruderal exotic species that take advantage of disturbance (previously cleared or abandoned landscaping), or land showing signs of past or present animal usage that removes any capability of providing viable habitat.

Disturbed areas were observed along the western project site boundary, with less than 0.1 acre occurring within the on-site area and 0.4 acre within the off-site area. Disturbed areas consist of an unvegetated road shoulder adjacent to 7th Street.

3.2.4 Pepper Tree Grove

Pepper tree grove (Residential/Urban/Exotic under the MSHCP Community Classification) is characterized as stands of pepper trees (*Schinus* spp.), which are usually associated with landscaping.

Pepper tree grove was observed as a small patch along the eastern project site boundary, with 0.1 acre occurring within the on-site area and less than 0.1 acre within the off-site area. This community consists of two mature trees on the project site.

3.3 PLANTS

HELIX identified a total of 38 plant species in the project site during the surveys to date, of which 24 (63 percent) are non-native species (Appendix B). The predominance of non-native species is indicative of the high degree of disturbance as a result of historical and current use of the site.

3.4 ANIMALS

Based on the limited habitat, only 26 bird species were detected in the project site during the surveys (Appendix C). Other common species that were not detected, but likely use the project site, include coyote (*Canis latrans*), desert cottontail (*Sylvilagus audubonii*), raccoon (*Procyon lotor*), and western fence lizard (*Sceloporus occidentalis*).

3.5 SENSITIVE BIOLOGICAL RESOURCES

3.5.1 Rare Plant Species

Rare plant species are uncommon or limited in that they: (1) are only found in the western Riverside County region; (2) are a local representative of a species or association of species not otherwise found in the region; or (3) are severely depleted within their ranges or within the region. Rare plant species include those species listed by CNPS with a California Rare Plant Rank of 1, 2, or 3 (CNPS 2024), federally and State listed endangered and threatened species, or those species that require additional surveys by the MSHCP (County 2003).

Nineteen rare plant species were recorded within the El Casco and Yucaipa quadrangles based on a database search conducted on CNDDB (CDFW 2024) and CNPS (2024). These species are included in Appendix G, *Rare Plant Species Potential to Occur.* None of the 20 rare plant species recorded within the vicinity of the project site has a potential to occur based on geographic range, elevation range, and/or lack of suitable habitat in the project site. The project site is also located within an MSHCP Narrow Endemic Plant Species Survey Area (NEPSSA), which is discussed further in Section 3.6.3 below.

3.5.2 Sensitive Animal Species

Sensitive animal species include federally and State listed endangered and threatened, candidate species for listing by USFWS or CDFW, and/or are species of special concern (SSC) pursuant to CDFW.

Twenty-eight sensitive animal species were recorded within the El Casco and Yucaipa quadrangles based on a database search conducted on CNDDB (CDFW 2024). These species are included in Appendix H, *Sensitive Animal Species Potential to Occur*, which includes an evaluation of each sensitive animal species' potential to occur in the project site. Of the 28 sensitive animal species recorded within the vicinity of the project site, 23 species were considered to have no potential to occur due to the lack of suitable habitat and lack of recent observations within the immediate vicinity of the project site. A habitat assessment was performed for CBB, which is discussed in Section 3.5.2.2 below.

Five species were determined to have a low potential to occur in the project site based on the presence of low-quality habitat, limited acreage of habitat, and lack of recent observations within the immediate vicinity of the project site. These species include BUOW, Los Angeles pocket mouse (*Perognathus longimembris brevinasus*), loggerhead shrike (*Lanius ludovicianus*), Swainson's hawk (*Buteo swainsoni*; foraging potential only), and white-tailed kite (*Elanus leucurus*). Los Angeles pocket mouse and loggerhead shrike are SSC. BUOW is a State candidate threatened species, Swainson's hawk is a State threatened species, and white-tailed kite is a State fully protected species. These five species are either adequately or not adequately conserved species under the MSHCP.

BUOW and CBB are discussed further below.

3.5.2.1 Burrowing Owl

Focused surveys for BUOW were conducted in accordance with the appropriate survey protocol (RCA 2006), as previously described in Section 2.3.2.1 above. No owls or other sign were observed within the survey area. Therefore, the project site does not support BUOWs. The survey results are discussed in detail in a separate letter report, which is provided in Appendix E.

3.5.2.2 Crotch's Bumble Bee

Based on the limited quantity and diversity of nectar resources in the project site, a lack of known occurrences within adjacent areas, and limited potential nesting habitat, the project site does not contain habitat suitable to support CBB; therefore, focused surveys were not required. The assessment results are discussed in detail in a separate letter report, which is provided in Appendix F.

3.5.3 Sensitive Vegetation Communities/Habitats

Sensitive vegetation communities/habitats are considered either rare within the region or sensitive by CDFW (2023b). Communities are given a Global and State (S) ranking on a scale of 1 to 5. Communities afforded a rank of 5 are most common, while communities with a rank of 1 are considered highly periled. CDFW considers sensitive communities as those with a rank between S1 and S3.

The project site does not support sensitive vegetation communities.

3.5.4 Jurisdictional Waters

Based on prior fieldwork (ECORP 2007), the project site originally supported three jurisdictional features, which the 2007 Biological Report refers to as "Stream," "Drainage 1," and "Drainage 2". These areas totaled 1.12 acres and were filled and replaced with a sub-surface storm drain system in 2009.

A jurisdictional assessment was conducted by Mr. Morales on May 12, 2021, on the project site and by Ms. Singleton on April 22, 2022, on the Northern Parcels. Existing conditions were also reverified during the 2024 BUOW and CBB surveys. No jurisdictional waters regulated by the USACE, RWQCB, or CDFW occur within the project site boundary. Storm drain inlets are in the northern and central portions of the project site, which function to accept sheet flow from 7th Street. Seventh Street is a paved road and bounds the project site to the west. No jurisdictional indicators were observed associated with these inlets. Photographs of the existing storm drain inlets in the project site are provided in Appendix D.

Based on the results of the jurisdictional assessment, no jurisdictional features were observed within the project site. Streambed field indicators were not present within the project site, such as the presence of an OHWM, defined bed and/or bank, or streambed associated riparian vegetation. Therefore, the project site does not currently support waters of the U.S. subject to USACE jurisdiction or waters of the State subject to RWQCB and CDFW jurisdiction.

MSHCP Riparian/Riverine Areas are addressed in Section 3.6.2 below.

3.5.5 Habitat and Wildlife Corridor Evaluation

Wildlife corridors connect otherwise isolated pieces of habitat and allow the movement or dispersal of plants and animals. Corridors can be local or regional in scale; their functions may vary temporally and spatially based on conditions and species presence. Local wildlife corridors allow access to resources such as food, water, and shelter within the framework of their daily routine. Animals use these corridors, which are often hillsides or tributary drainages, to move between different habitats. Regional corridors provide these functions over a larger scale and link two or more large habitat areas, allowing the dispersal of organisms and the consequent mixing of genes between populations.

The project site does not directly connect to large blocks of habitat. Although the western portion of the project site is adjacent to undeveloped land, the project site is constrained by a commercial development to the south, I-10 to the east, and commercial and residential land to the north. There are no culvert crossings within or adjacent to the project site that would allow animals to move across the I-10 from the project site. The project site consists mostly of undeveloped land dominated by disturbed habitat with sparse vegetation. Because the project site does not connect two or more large habitat areas, the project site is not considered a wildlife movement corridor.

The project site is not located within any MSHCP Linkages, which are areas within the Plan Area identified as having the potential to facilitate wildlife movement (County 2003). The nearest linkage to the project site is Proposed Constrained Linkage (PCL-) 23, which is approximately 0.25 mile to the south of the project site. The project site does not directly connect to PCL-23, which is separated by Sandalwood Drive and an existing commercial development.

The project site is disturbed from historical and surrounding human activities and supports minimal vegetative cover. Although the project site does not function as a wildlife corridor, it does support some trees and herbaceous ground cover that may provide limited opportunities for local wildlife movement. Smaller mammals and reptiles that are adapted to human disturbance (e.g., California ground squirrel [*Otospermophilus beecheyi*], desert cottontail rabbits, western fence lizard) may use the project site for foraging and/or cover, while bird species may fly over existing development to access the project site for foraging and/or nesting. Some wildlife may use the project site for cover and/or foraging. Therefore, the project site may support some low-quality habitat for wildlife, but the project site does not function as a wildlife movement corridor because it does not connect two or more large blocks of habitat.

3.6 WESTERN RIVERSIDE COUNTY MSHCP CONSISTENCY ANALYSIS

3.6.1 Habitat Evaluation and Acquisition Negotiation Strategy (Section 6.1.1)

The MSHCP Plan Area is divided into 16 Area Plans, in which 153,000 acres were identified as potential areas for conservation that would contribute to the overall existing MSHCP Conservation Area. The

areas described for conservation within the MSHCP Plan Area fall within the Criteria Area, further divided into Cells and Cell Groups, which provide the foundation of Core Areas that support habitat for covered species and Linkages that provide a connection between Core Areas. Each Cell and Cell Group is subject to specific conservation goals and objectives. All projects within the Criteria Area are required to be assessed through the HANS process to determine the acreage amount of conservation required. The HANS process aids in the acquisition of conservation lands that will contribute to the assembly of the MSHCP Reserve. The HANS process is followed by the JPR process.

The project site is located within Subunit 2 (Badlands/San Bernardino National Forest) in the north-central portion of the Pass Area Plan. The northern, northeastern, and western portions of the project site fall within the northeastern corner of Cell 323, and the southern and southeastern portions of the project site fall within the northwest-central portion of Cell 326 (Figure 7, *MSHCP Context*). The criteria for Cells 323 and 326 are summarized below in Table 2, *MSHCP Cell Criteria*. Conservation within Cells 323 and 326 focuses on upland habitats within the southern portion of the Cells, associated with Proposed Constrained Linkage 23. The project site is located in the northernmost portion of Cell 323 and the northwest-central portion of Cell 326, outside of the area described for conservation in the southern portion of these Cells.

As discussed in Section 1.4 above, a HANS application was submitted to the City in August 2022, and a JPR application was submitted to the RCA in September 2022. The JPR process is ongoing with the RCA. The Project Proponent is working to respond to JPR comments from RCA, which includes submitting an after-the-fact DBESP. After RCA issues its consistency findings, the Wildlife Agencies will perform their own joint review and either provide additional comments or their concurrence with the RCA findings. Under the City's direction, the JPR process, including RCA and Wildlife Agencies' approval of the DBESP, will be completed before the Final MND is prepared. Because the project site does not encompass areas targeted for conservation, the project will not conflict with the conservation goals for Cells 323 and 326.

Table 2
MSHCP CELL CRITERIA

Cell Number	Cell Conservation Criteria
323	Conservation within this Cell will contribute to the assembly of Proposed Constrained Linkage 23. Conservation within this Cell will focus on chaparral and grassland. Areas conserved within this Cell will be connected to chaparral and grassland habitat proposed for conservation to the south, east, and west in Cells 417, 326, and 311. Conservation within this Cell will range from 5% to 15%, focusing on the southern portion of the Cell.
326	Conservation within this Cell will contribute to the assembly of Proposed Constrained Linkage 23. Conservation within this Cell will focus on coastal sage scrub, chaparral, and grassland. Areas conserved within this Cell will be connected to uplands proposed for conservation in Cells 411 and 323. Conservation within this Cell will range from 5%, focusing on the southern portion of the Cell.

Source: County (2003)

3.6.2 Riparian/Riverine and Vernal Pool Habitat Assessment (MSHCP Section 1.2)

The identification of MSHCP Riparian/Riverine resources is based on the potential for the habitat to support, or be a tributary to habitat that supports, Riparian/Riverine Covered Species. Riparian/Riverine Covered Species are identified in MSHCP Section 6.1.2. The MSHCP defines Riparian/Riverine habitat as

"lands which contain Habitat dominated by trees, shrubs, or emergent mosses and lichens, which occur close to or which depend upon soil moisture from a nearby fresh water source; or areas with fresh water flow during all or a portion of the year" (County 2003). The MSHCP defines Vernal Pools as "seasonal wetlands that occur in depression areas that have wetlands indicators of all three parameters (soils, vegetation and hydrology) during the wetter portion of the growing season but normally lack wetlands indicators of hydrology and/or vegetation during the drier portion of the growing season" (County 2003). Artificially created features, except for those created intentionally to provide wetland habitat, or resulting from the creation of open waters, or alteration of natural stream courses, are not considered MSHCP Riparian/Riverine Areas or Vernal Pools.

Based on prior fieldwork (ECORP 2007), the project site originally supported three Riparian/Riverine Areas, specifically one stream in the northern portion of the project site (Stream) and two drainages (Drainages 1 and 2) in the center of the site. These areas totaled 1.12 acres and were filled and replaced with a sub-surface storm drain system in 2009.

In accordance with the MSHCP, a Riparian/Riverine and Vernal Pool habitat assessment was conducted for the project site by Mr. Morales on May 12, 2021, and for the entire project site by Ms. Singleton on April 22, 2022. The Riparian/Riverine and Vernal Pool habitat assessment was conducted concurrently with the jurisdictional assessment. Existing conditions were also reverified during the 2024 BUOW and CBB surveys. No Riparian/Riverine Areas or Vernal Pools were observed within the project site boundary. Storm drain inlets are in the northern and central portions of the project site, which function to accept sheet flow from 7th Street. Seventh Street is a paved road that bounds the project site to the west. Riparian/Riverine Areas or Vernal Pools were not observed associated with these inlets. No depressional areas capable of supporting fairy shrimp species were observed within the project site. As a result, the project site does not currently support Riparian/Riverine Areas or Vernal Pools or suitable habitat for associated species, as defined by MSHCP. Photographs of the existing storm drain inlets observed within the project site are provided in Appendix D.

3.6.3 Narrow Endemic Plant Species Survey Area (MSHCP Section 6.1.3)

There are 14 narrow endemic plant species that are associated with 10 different NEPSSAs located throughout the MSHCP Plan Area (refer to Table 6-1 in the MSHCP). The MSHCP requires a habitat assessment to be conducted for projects located within a NEPSSA to determine whether a project site supports suitable habitat for the associated narrow endemic plant species. Focused surveys for species listed for the NEPSSA must be conducted if suitable habitat is present. If focused surveys are positive, 90 percent of the property that supports habitat suitable for long-term conservation of the species must be avoided until conservation goals for the species are satisfied.

The project site is located within NEPSSA 8, which requires a habitat assessment for Yucaipa onion (*Allium marvinii*) and many-stemmed dudleya (*Dudleya multicaulis*). These species are generally associated with clay soils within upland habitats. Many-stemmed dudleya can also occur on sandstone outcrops. The project site does not support suitable clay soil or sandstone outcrops. The project site mostly supports loamy and sandy soil types. The project site is also located below the elevation range of Yucaipa onion. Because the project site does not support suitable habitat for either species, focused surveys for narrow endemic plant species were not warranted, and no further action regarding these species is required.



HELIX Environmental Planning

MSHCP Context

Figure 7

3.6.4 Additional Survey Needs and Procedures (MSHCP Section 6.3.2)

For species listed under MSHCP Section 6.3.2, if a project site is located within one of the designated survey areas and suitable habitat is present on the project site, focused surveys are required. If focused surveys are positive for conditionally covered species, 90 percent of the property that supports habitat suitable for long-term conservation of the species must be avoided until conservation goals for the species have been satisfied. Additional survey requirements are discussed in detail below.

3.6.4.1 Criteria Area Plant Species

An assessment of suitable habitat for rare plant species must be conducted for projects located within a Criteria Area Species Survey Area (CASSA). If suitable habitat is present, focused surveys for species listed for the CASSA should be conducted.

The project site is not located within a CASSA; therefore, a habitat assessment for criteria area plant species was not warranted, and no further action regarding criteria area plant species is required.

3.6.4.2 Amphibian Species

An assessment of suitable habitat for arroyo toad (*Bufo californicus*), California red-legged frog (*Rana draytonii*), and mountain yellow-legged frog (*Rana muscosa*) must be conducted for projects located within an Amphibian Species Survey Area.

The project site is not within the Amphibian Species Survey Area; therefore, a habitat assessment for amphibians was not warranted, and no further action regarding amphibians is required.

3.6.4.3 Burrowing Owl

The project site is located within a BUOW Survey Area. Therefore, a Step I assessment for BUOW suitable habitat was required in accordance with the appropriate survey protocol (RCA 2006). Because suitable habitat was observed, a Step II-A focused burrow survey was required, and because one suitable burrow and one burrow surrogate were found, Step II-B focused owl surveys were required. As discussed in Section 3.5.2.1, no owls or other sign were observed during the focused owl surveys.

3.6.4.4 Mammal Species

An assessment of suitable habitat for Aguanga kangaroo rat (*Dipodomys merriami collinus*), San Bernardino kangaroo rat (*Dipodomys merriami parvus*), and Los Angeles pocket mouse must be conducted for projects located within a Mammal Species Survey Area.

The project site is not within the Mammal Species Survey Area; therefore, a habitat assessment for mammals was not warranted, and no further action regarding mammals is required.

4.0 REGIONAL AND REGULATORY CONTEXT

Biological resources located within the project site are subject to regulatory review by federal, State, and local agencies. Biological resources-related laws and regulations that apply to the project include

the Federal Endangered Species Act (FESA), Migratory Bird Treaty Act (MBTA), CWA, California Endangered Species Act (CESA), and FGC.

4.1 FEDERAL REGULATIONS

4.1.1 Federal Endangered Species Act

Administered by the USFWS, the FESA provides the legal framework for the listing and protection of species (and their habitats) identified as being endangered or threatened with extinction. Actions that jeopardize endangered or threatened species and the habitats upon which they rely are considered a "take" under the ESA. Section 9(a) of the ESA defines take as "to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or attempt to engage in any such conduct." "Harm" and "harass" are further defined in federal regulations and case law to include actions that adversely impair or disrupt a listed species' behavioral patterns.

Sections 4(d), 7, and 10(a) of the FESA regulate actions that could jeopardize endangered or threatened species. Section 7 describes a process of federal interagency consultation for use when federal actions may adversely affect listed species. A biological assessment is required for any major construction activity if it may affect listed species. In this case, take can be authorized via a letter of biological opinion issued by the USFWS for non-marine related listed species issues. A Section 7 consultation is required when there is a nexus between federally listed species' use of the site and impacts to USACE jurisdictional areas. Section 10(a) allows the issuance of permits for "incidental" take of endangered or threatened species. The term "incidental" applies if the taking of a listed species is incidental to, and not the purpose of, an otherwise lawful activity. A Section 10(a) permit for the MSHCP was issued in 2004 and covers Western Riverside County. A project may tier from the existing Section 10(a) permit if the RCA and/or the Wildlife Agencies determined that the project is consistent with the MSHCP.

4.1.2 Federal Clean Water Act, Section 404

Federal wetland regulation (non-marine issues) is guided by the Rivers and Harbors Act of 1899 and the CWA. The Rivers and Harbors Act deals primarily with discharges into navigable waters, while the purpose of the CWA is to restore and maintain the chemical, physical, and biological integrity of all waters of the U.S. Permitting for projects filling waters of the U.S., including wetlands and vernal pools, is overseen by USACE under Section 404 of the CWA. Projects may be permitted on an individual basis or may be covered under one of several approved Nationwide Permits. Individual Permits are assessed individually based on the type of action, amount of fill, etc. Individual Permits typically require substantial time (often longer than six months) to review and approve, while Nationwide Permits are pre-approved if a project meets the appropriate conditions. A CWA Section 401 Water Quality Certification, which is administered by the State Water Resources Control Board, must be issued prior to a 404 Permit. Waste Discharge Requirements must be obtained for impacts to non-federal waters through preparation and submittal of a SWRCB Report of Waste Discharge.

4.1.3 Migratory Bird Treaty Act

Migratory bird species that are native to the United States or its territories are protected under the Federal MBTA, as amended under the Migratory Bird Treaty Reform Act of 2004 (FR Doc. 05-5127). The MBTA is generally protective of migratory birds but does not actually stipulate the type of protection required. In common practice, the MBTA is used to place restrictions on disturbance of active bird nests

during the nesting season, which is generally defined as February 15 through August 31 for songbirds. In addition, the USFWS commonly places restrictions on the disturbances allowed near active raptor nests. The raptor nesting season is generally defined as January 15 through August 31.

4.1.4 Critical Habitat

As described by the FESA, critical habitat is the geographic area occupied by a threatened or endangered species essential to species conservation that may require special management considerations or protection. Critical habitat also may include specific areas not occupied by the species but have been determined to be essential for species conservation. Because the MSHCP factored critical habitat into the MSHCP Reserve when it was being designed, there is no critical habitat within or near the project site.

4.2 STATE REGULATIONS

4.2.1 California Environmental Quality Act

Primary environmental legislation in California is found in CEQA and its implementing guidelines (State CEQA Guidelines), which require that projects with potential adverse effects (i.e., impacts) on the environment undergo environmental review. Adverse environmental impacts are typically mitigated as a result of the environmental review process in accordance with existing laws and regulations.

4.2.2 California Endangered Species Act

The CESA is similar to the FESA in that it contains a process for the listing of species and regulating potential impacts to listed species. The MSHCP is a CDFW-approved Natural Communities Conservation Plan (NCCP) as provided for in the NCCP Act, Fish and Game Code Sections 2800-2835 1. A project may tier from the existing NCCP permit if the RCA and/or the Wildlife Agencies determine that the project is consistent with the MSHCP.

The golden eagle (*Aquila chrysaetos*) and white-tailed kite are considered State fully protected species. Fully protected species may not be taken or possessed at any time, and no State licenses or permits may be issued for their take except for collecting the species necessary for scientific research and relocation of the bird species for the protection of livestock (FGC Sections 3511, 4700, 5050, and 5515).

The Native Plant Protection Act (NPPA) enacted a process by which plants are listed as rare or endangered. The NPPA regulates the collection, transport, and commerce of listed plants. The CESA follows the NPPA and covers both plants and animals determined to be endangered or threatened with extinction. Plants listed as rare under NPPA were designated threatened under the CESA.

4.2.3 Protection of Raptor Species

Raptors (birds of prey) and owls and their active nests are protected by FGC Section 3503.5, which states that it is unlawful to take, possess, or destroy any birds of prey or to take, possess, or destroy the nest or eggs of any such bird unless authorized by the CDFW.

4.2.4 California Fish and Game Code, Section 1602

The FGC (Section 1600 et seq.) requires a Streambed Alteration Agreement with the CDFW for activities that would alter the bed or banks, or divert or obstruct the flow, of any stream. CDFW typically asserts that a Streambed Alteration Agreement is required for projects affecting riparian and wetland habitat.

4.3 REGIONAL AND LOCAL REGULATIONS

4.3.1 Multiple Species Habitat Conservation Plan Consistency

The MSHCP is a comprehensive multi-jurisdictional effort that includes Riverside County and multiple cities in Western Riverside County. Rather than addressing sensitive species on an individual basis, the MSHCP focuses on the conservation of 146 species, proposing a Reserve system of approximately 500,000 acres and a mechanism to fund and implement the Reserve system (County 2003). The MSHCP allows Permittees to convey third-party take coverage for MSHCP-covered species and their associated habitats potentially impacted by projects. The MSHCP streamlines the incidental take process by allowing projects to rely on existing permits rather than individual applicants seeking their own take authorization from the USFWS and/or CDFW. The MSHCP was adopted on June 17, 2003, by the Riverside County Board of Supervisors. The Incidental Take Permit and NCCP Permit were issued by USFWS and CDFW, respectively, in June 2004. Section 3.6 above and Section 5.6 below demonstrate the project's consistency with the MSHCP.

4.3.2 Stephens' Kangaroo Rat Habitat Conservation Plan

The Habitat Conservation Plan (HCP) for Stephens' kangaroo rat (*Dipodomys stephensi*; SKR) describes the conservation, mitigation, and monitoring measures that are implemented within Core Reserves. Within the SKR HCP, there are seven Core Reserves, totaling 41,221 acres for the conservation of SKR and associated habitat. The HCP provides a 30-year incidental take authorization for SKR on lands within its boundaries, which includes 533,954 acres within the County of Riverside and the Cities of Corona, Hemet, Lake Elsinore, Moreno Valley, Murrieta, Perris, Riverside, and Temecula.

The project site is not located within the SKR HCP; therefore, the project is not required to pay an SKR mitigation fee for incidental take authorization under the SKR HCP. Based on the location of the project site, the MSHCP provides full take coverage for SKR.

4.3.3 Protection of Oak Trees

City General Plan Resource Management Policy RM-13 states that native oak trees (*Quercus* spp.) should be preserved whenever feasible, and that if preservation is not possible, trees should be replaced with oak trees of the same species at a ratio of 1:1. This policy is implemented through the City's Ordinance (Chapter 18.80; City 2016), which protects heritage oak trees, protected oak trees, and stands of oak trees (oak groves), which are defined as the following:

- Heritage oak tree: An oak tree of the genus *Quercus* other than a protected oak tree or scrub oak that has a trunk measuring 12 inches or more in diameter, as measured 4.5 feet from the natural grade (i.e., DBH).

- Protected oak tree: An oak tree of the genus *Quercus*, including Nuttall's scrub oak (*Quercus dumosa*), other than a heritage oak tree or scrub oak, which has a trunk measuring two inches or more in diameter, as measured 4.5 feet from the natural grade (i.e., DBH).

- Protected stand of oak trees (oak grove): A cluster of four or more oak trees of the genus *Quercus*, including Nuttall's scrub oaks.

The City requires an Oak Tree Preservation and Replacement Permit for projects that propose removing or encroaching into the protected zone (i.e., five feet from the dripline or 15 feet from the trunk, whichever is greater) of heritage oak trees, protected trees, or protected stand of oak trees. To obtain a permit, a Plan must be submitted in conjunction with the Permit application.

5.0 PROJECT EFFECTS

This section describes potential direct and indirect impacts associated with the proposed project. Direct impacts immediately alter the affected biological resources such that those resources are eliminated temporarily or permanently. Indirect impacts consist of secondary effects of a project, including noise, decreased water quality (e.g., through sedimentation, urban contaminants, or fuel release), fugitive dust, colonization of non-native plant species, animal behavioral changes, and night lighting. The magnitude of an indirect impact can be the same as a direct impact; however, the effect usually takes longer to become apparent.

The significance of impacts to biological resources present, or those with the potential to occur, was determined based on the sensitivity of the resource and the extent of the anticipated impacts. For certain, highly sensitive resources (e.g., a federally listed species), any impact would be significant. Conversely, other resources that are of low sensitivity (e.g., species with a large, locally stable population in the County but declining elsewhere) could sustain some impact with a less-than-significant effect.

According to Appendix G of the CEQA Guidelines, project impacts to biological resources would be considered significant if they would:

(a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by CDFW or USFWS.

(b) Have a substantial adverse effect on any riparian habitat or sensitive natural community identified by local or regional plans, policies, regulations, or by CDFW or USFWS.

(c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the CWA (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling hydrological interruption, or other means.

(d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with an established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites.

(e) Conflict with local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance.

(f) Conflict with provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan.

5.1 SENSITIVE SPECIES

5.1.1 Rare Plant Species

No Impacts

None of the 20 rare plant species recorded within the vicinity of the project site was considered to have a potential to occur based on geographic range, elevation range, and/or lack of suitable habitat (refer to Appendix G). Therefore, no impacts to rare plant species will occur, and no mitigation is required. NEPSSA species are discussed further in Section 5.6.2 below.

5.1.2 Sensitive Animal Species

Less than Significant Impacts with Mitigation Incorporated

Of the 28 sensitive animal species recorded within the El Casco and Yucaipa quadrangles, 23 species were considered to have no potential to occur in the project site due to lack of suitable habitat (refer to Appendix H). Therefore, no significant impacts to these sensitive wildlife species will occur. Based on the limited quantity and diversity of nectar resources in the project site, a lack of known occurrences within adjacent areas, and limited potential nesting habitat, the project site does not contain habitat suitable to support CBB, and focused surveys are not warranted. The results of the habitat assessment for CBB are discussed in detail in a separate letter report provided in Appendix F.

The remaining five species were determined to have a low potential to occur in the project site based on the presence of low-quality habitat, limited acreage of habitat, and lack of recent observations within the immediate vicinity of the project site. These species include BUOW, Los Angeles pocket mouse, loggerhead shrike, Swainson's hawk (foraging potential only), and white-tailed kite. These species are discussed in detail below.

MSHCP Adequately Conserved Species: Loggerhead shrike is a State SSC, Swainson's hawk is State threatened, and white-tailed kite is State fully protected. While these three species are considered adequately conserved under the MSHCP, there is no allowable take of white-tailed kite (i.e., CDFW FP), nor is there any allowable take of any of these bird species if they are nesting. Measure BIO-2 would be implemented to avoid potential impacts to any nesting birds if present at the time of construction.

MSHCP Not Adequately Conserved Species: BUOW is State candidate threatened species and Los Angeles pocket mouse is a State SSC; neither species is adequately conserved under the MSHCP. MSHCP requirements for each species are described below.

- **BUOW:** An assessment for suitable habitat is required for projects located within a BUOW Survey Area. When suitable habitat is found on a project site, focused burrow surveys are required, and if suitable burrows are found, focused owl surveys are required. Based on the results of all three steps, conducted per the RCA 2006 protocol, BUOW are absent from the

proposed project site. Due to the presence of suitable habitat, the MSHCP requires that a pre-construction survey be conducted within 30 days prior to ground-disturbing activities (i.e., earthwork, clearing, grubbing, watering, staging, etc.) occurring on the project site (refer to Measure BIO-1 in Section 6.0 below). If BUOW is observed during the pre-construction survey, the RCA and Wildlife Agencies (i.e., CDFW and USFWS) must be immediately notified. Furthermore, active BUOW nests must be avoided. The Project Proponent would also coordinate with the RCA and Wildlife Agencies to determine whether a BUOW Protection and Relocation Plan is required.

- **Los Angeles Pocket Mouse:** An assessment for suitable habitat is required for projects within a Mammal Species Survey Area. Given that the project site is not within a survey area, an assessment is not required.

5.2 SENSITIVE VEGETATION COMMUNITIES

5.2.1 California Department of Fish and Wildlife Sensitive Vegetation Communities/Habitats

No Impacts

The project would permanently impact approximately 4.5 acres (3.8 acres on-site, 0.7 acre off-site) and temporarily impact 0.4 acre (off-site only) of the project site (Table 3, *Sandalwood Commercial Development – Impacts to Vegetation and Land Uses*; Figure 8, *Impacts to Vegetation and Land Uses*). None of the vegetation communities mapped in the project site is considered sensitive pursuant to CDFW (2024b). Therefore, no impacts to sensitive vegetation communities will occur, and mitigation is not required. No development is proposed on the Northern Parcels, although the southern portion of Parcel 2 will be temporarily impacted by over-excavation during construction of the Sandalwood Commercial Development.

Table 3
SANDALWOOD COMMERCIAL DEVELOPMENT - IMPACTS TO VEGETATION AND LAND USES

Manual of California Vegetation/Oberbauer	Permanent Impacts (acres)[1]			Temporary Impacts (acres)[1]		
	On-site	Off-site	TOTAL	On-site	Off-site	TOTAL
Wild Oats and Annual Brome Grassland	3.7	0.3	**4.0**	0.1	0.3	**0.4**
Developed	0.0	0.2	**0.2**	0.0	<0.1[2]	**<0.1**
Disturbed	0.0	0.2	**0.2**	0.0	<0.1[3]	**<0.1**
Pepper Tree Grove	0.1	0.0	**0.1**	0.0	<0.1[4]	**<0.1**
TOTAL	**3.8**	**0.7**	**4.5**	**0.1**	**0.3**	**0.4**

[1] Acreages are rounded to the nearest tenth.
[2] Actual acreage is 0.01 acre.
[3] Actual acreage is 0.01 acre
[4] Actual acreage is 0.03 acre.

5.2.2 California Department of Fish and Wildlife Riparian Habitat and Streambed

No Impacts

The project site does not support any drainage features, wetlands, or other special aquatic sites under the jurisdiction of CDFW. As discussed in Section 1.4, the landowner and CDFW are unable to locate the LSA for the prior project, which was implemented in 2009 to verify previously required mitigation for impacts to jurisdictional waters. Additionally, the landowner is unable to locate documentation of mitigation implementation. Because mitigation requirements and implementation cannot be verified, the current Project Proponent has identified a mitigation approach to compensate for prior project impacts to CDFW jurisdiction. Permanent impacts that occurred in 2009 to 1.12 acres of CDFW jurisdiction shall be mitigated through off-site enhancement, restoration, and/or creation of jurisdictional streambed at a ratio of no less than 2:1 as detailed in Measure BIO-3. The proposed mitigation details are outlined in a DBESP (Appendix A).

5.3 U.S. ARMY CORPS OF ENGINEERS/REGIONAL WATER QUALITY CONTROL BOARD JURISDICTION

No Impacts

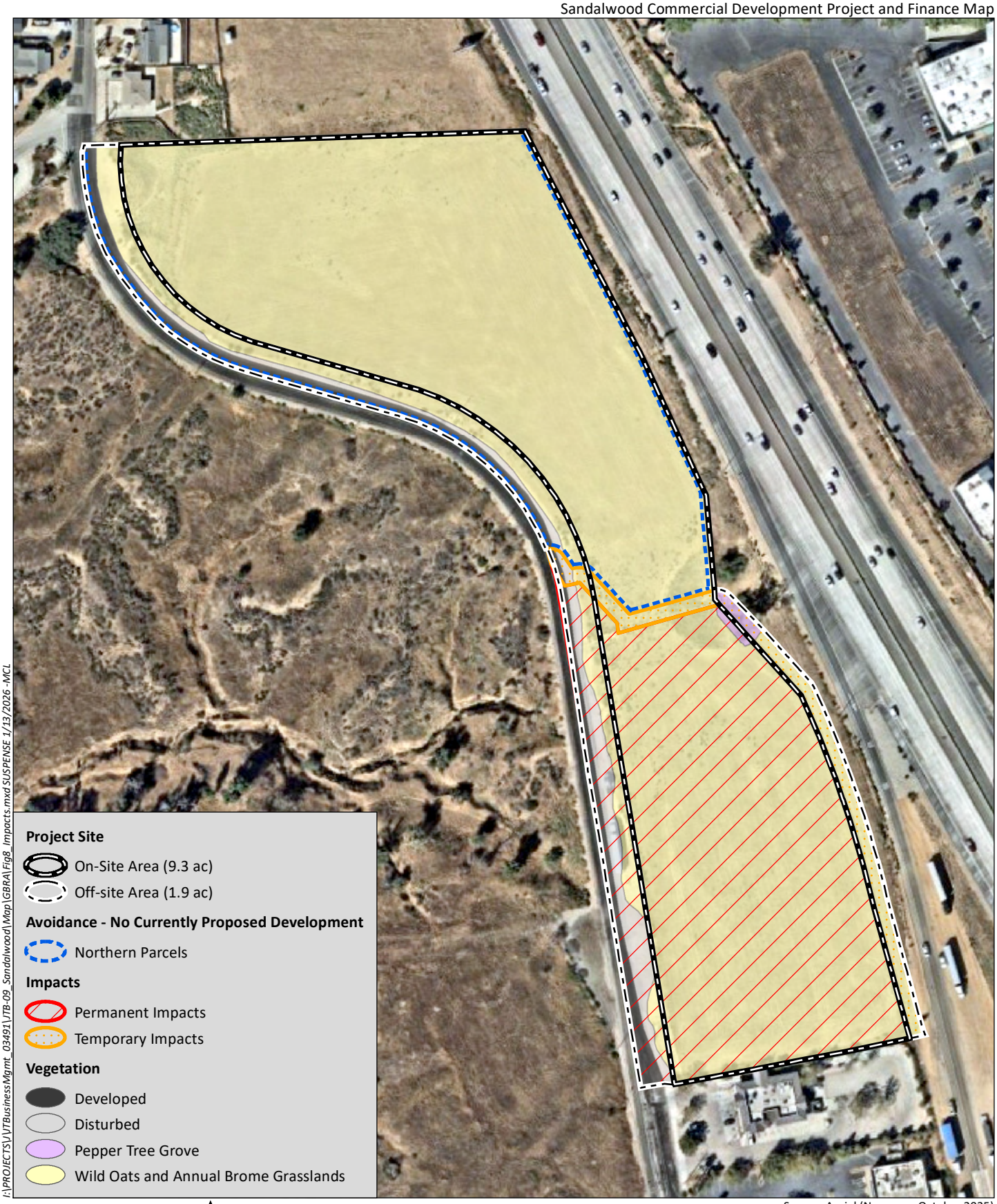
The project site does not currently support any drainage features, wetlands, or other special aquatic sites under the jurisdiction of USACE or RWQCB. Therefore, no impacts to USACE or RWQCB jurisdiction will occur, and mitigation is not warranted for impacts to USACE/RWQCB jurisdictional features. No mitigation was required for the prior project (2009) by USACE in the Section 404 Nationwide Permit, and RWQCB determined no action would be taken per the Section 401 Water Quality Certification.

5.4 WILDLIFE MOVEMENT AND MIGRATORY SPECIES

5.4.1 Wildlife Movement

Less than Significant

The project site does not directly connect to large blocks of habitat. The project site consists mostly of undeveloped land dominated by disturbed habitat with sparse vegetation. Although the western portion of the project site is adjacent to undeveloped land, the project site is constrained by a commercial development to the north and south and I-10 to the east. The project site is not identified by the MSHCP (County 2003) as being part of a local or regional corridor or linkage. The nearest linkage to the project site is PCL-23, which is approximately 0.25 mile to the south of the project site. The project site does not directly connect to PCL-23, which is separated by Sandalwood Drive and an existing commercial development. The project site supports limited vegetation that may be used by birds, smaller mammals, and reptiles that have adapted to human disturbance. Some wildlife may use the project site for foraging and/or nesting, but use of the project site by wildlife is restricted due to limited vegetative cover and adjacent disturbance from existing human development. The project would not significantly impact wildlife movement through the project site.



Source: Aerial (Nearmap, October 2025)

HELIX Environmental Planning

Impacts to Vegetation and Land Uses

Figure 8

5.4.2 Migratory Species

Less than Significant Impacts with Mitigation Incorporated

Development of the proposed project could disturb or destroy active migratory bird nests, including eggs and young. Disturbance to, or destruction of, migratory bird eggs, young, or nesting adults is in violation of the MBTA. Additionally, it is unlawful under FGC § 3503 to take, possess, or needlessly destroy the nest or eggs of any bird. Although suitable habitat for nesting birds in the project site is limited, herbaceous ground cover throughout the site and Peruvian pepper trees located in the eastern portion of the project site could provide habitat for protected nesting bird species. Measure BIO-2 would ensure the project is compliant with MBTA regulations and FGC.

5.5 LOCAL POLICIES AND ORDINANCES

No Impacts

The project site does not support any oak trees. Therefore, the project would not conflict with Chapter 18.80: Tree Preservation of the City's Municipal Code.

5.6 ADOPTED HABITAT CONSERVATION PLANS

Less than Significant Impacts with Mitigation Incorporated

The following sections demonstrate the project's consistency with the MSHCP requirements.

5.6.1 Habitat Evaluation and Acquisition Negotiation Strategy (MSHCP Section 6.1.1)

Because the proposed project is located within the MSHCP Criteria Area, specifically Cells 323 and 326 (Figure 7), the project is subject to the HANS process with the City to determine what portion (if any) of the project site is described for conservation and may be needed for the MSHCP Reserve system. The HANS process is followed by the JPR process with the RCA and Wildlife Agencies.

As discussed in Section 1.4, a HANS application was prepared by ECORP Consulting, Inc. in August 2007 for the prior project that was implemented in 2009. However, the landowner is unable to locate documentation that the HANS process or JPR was completed. The City, RCA, and Wildlife Agencies are also unable to locate documentation. A HANS application for the currently proposed project was submitted to the City in August 2022, and a JPR application was submitted to the RCA in September 2022. JPR processing is ongoing with the RCA. The Project Proponent is working to respond to JPR comments from RCA, which includes submitting an after-the-fact DBESP (Appendix A). After RCA issues its consistency findings, the Wildlife Agencies will perform their own joint review and provide additional comments or concurrence with the RCA findings. Under the City's direction, JPR processing, including RCA and Wildlife Agencies approval of the DBESP, must be completed before the Final MND is prepared. Given that the project site does not encompass areas targeted for conservation, the project would not conflict with MSHCP conservation goals.

5.6.2 Riparian/Riverine Areas and Vernal Pools (MSHCP Section 6.1.2)

The identification of MSHCP Riparian/Riverine resources is based on the potential for the habitat to support, or be a tributary to habitat that supports, Riparian/Riverine Covered Species. Riparian/Riverine Covered Species are identified in MSHCP Section 6.1.2. The MSHCP defines Riparian/Riverine habitat as "lands which contain Habitat dominated by trees, shrubs, or emergent mosses and lichens, which occur close to or which depend upon soil moisture from a nearby fresh water source; or areas with fresh water flow during all or a portion of the year" (County 2003). The MSHCP defines Vernal Pools as "seasonal wetlands that occur in depression areas that have wetlands indicators of all three parameters (soils, vegetation, and hydrology) during the wetter portion of the growing season but normally lack wetlands indicators of hydrology and/or vegetation during the drier portion of the growing season" (County 2003). Artificially created wetlands, except for those created intentionally to provide habitat, or resulting from the creation of open waters, or alteration of natural stream courses, are not considered MSHCP Vernal Pools.

The project site does not support Riparian/Riverine Areas or Vernal Pools, as defined by MSHCP. Depressional areas capable of supporting fairy shrimp species were not observed in the project site. The project would not directly or indirectly impact Riparian/Riverine Areas or associated species. Therefore, the proposed project does not conflict with MSHCP Section 6.1.2.

The project site does not support suitable habitat for MSHCP Riparian/Riverine bird species, including least Bell's vireo (*Vireo bellii pusillus*), southwestern willow flycatcher (*Empidonax traillii extimus*), and yellow-billed cuckoo (*Coccyzus americanus*). Therefore, focused surveys were not required. No evidence of hydric soils (e.g., mud cracks), vernal pool/wetland vegetation, or vernal pool/wetland hydrology were observed on the project site during the 2020 or 2021 site visits or in the project site during the 2022 or 2024 site visits. The Northern Parcel photographs (refer to Photographs 5 through 8 in Appendix D) were taken immediately after a rain event. The soils in the project site do not consist of clay or silt and are dominated by well-drained loam and sandy loam. Given that no signs of hydric soils, vernal pool/wetland vegetation, or vernal pool/wetland hydrology were observed during the habitat assessment, suitable fairy shrimp habitat is presumed absent from the project site. Therefore, focused surveys are not warranted, and no further action regarding fairy shrimp is required.

As discussed in Section 1.4, prior to grading in 2009, the project site contained MSHCP Riparian/Riverine Areas. These areas were impacted during drainage improvements in 2009. The prior landowner, RCA, and Wildlife Agencies are unable to locate a DBESP for the project that was implemented in 2009 to verify previously required mitigation. Additionally, the landowner is unable to locate documentation of mitigation implementation. Because mitigation requirements and implementation cannot be verified, the Project Proponent has coordinated with the landowner and Wildlife Agencies to identify a mitigation approach to compensate for the project impacts to MSHCP Riparian/Riverine Areas. A DBESP has been prepared to address after-the-fact consistency of the prior project (2009) with MSHCP Section 6.1.2, but is also part of the currently ongoing JPR process.

The DBESP demonstrates that the proposed mitigation provides equivalent or superior preservation for prior impacts that occurred on the project site. Permanent impacts that occurred in 2009 to 1.12 acres of MSHCP Riparian/Riverine Areas will be mitigated through off-site enhancement, restoration, and/or creation of jurisdictional streambed at a ratio of no less than 2:1 as detailed in Measure BIO-3. Additional details regarding the compensatory mitigation approach are provided in Appendix A. The JPR

process, including RCA and Wildlife Agencies' review and approval of the DBESP, will be completed before the Final MND is prepared.

5.6.3 Narrow Endemic Plant Species (MSHCP Section 6.1.3)

The project site is located within a NEPSSA. The project site was assessed for suitable habitat, and it was determined that no suitable habitat is present. Focused surveys are not warranted, and no further action regarding narrow endemic plant species is required. Therefore, the proposed project is consistent with Section 6.1.3 of the MSHCP.

5.6.4 Urban/Wildland Interface Guidelines (MSHCP Section 6.1.4)

Proposed developments adjacent to MSHCP Conservation Areas may create edge effects that can impact conserved biological resources. The MSHCP provides several guidelines that address potential indirect effects from proposed developments that are in proximity to MSHCP Conservation Areas. These guidelines include measures addressing the quantity and quality of runoff generated by the development (i.e., drainage and toxics), night lighting, noise, non-native invasive plant species, barriers to humans and animal predators, and grading/land development encroachment.

The project site is located within Cells 323 and 326, but is not within the portions of these Cells described for conservation, nor is it located adjacent to existing MSHCP Conservation Areas. PCL-23 is located approximately 0.25 mile to the south of the project site. Because the project site is separated from PCL-23 by Sandalwood Drive and an existing commercial development, the Urban Wildland Interface Guidelines are not directly applicable to the proposed project. However, as standard practice, the project would still be consistent with each applicable guideline, thus ensuring that there would be no conflicts with MSHCP Section 6.1.4.

Drainage

The proposed project is designed to convey all flows into the existing storm drain system, and the flows from the site will not be conveyed into the Northern Parcels. Therefore, the project would not directly or indirectly affect hydrology on the Northern Parcels or any off-site areas. The project site does not support natural drainage features. However, as standard practice, the project would incorporate measures to avoid the discharge of untreated surface runoff into downstream waters. Measures would include those required for construction pursuant to the State Water Resources Control Board General Construction Stormwater Permit and those required post-construction pursuant to the National Pollutant Discharge Elimination System and Municipal Storm Drain requirements. The project has also been designed to prevent the release of toxins, chemicals, petroleum products, exotic plant materials, or other elements that might degrade or harm biological resources or ecosystem processes downstream from the project.

Toxics

Land uses that use chemicals or generate bio-products that are potentially toxic or may adversely affect wildlife species, habitat, or water quality shall incorporate measures to ensure that the application of such chemicals does not result in a discharge into downstream waters. As standard practice, measures, such as those employed to address drainage issues, would be implemented by the proposed project to avoid the potential impacts of toxics.

Lighting

The project site is not located within or directly adjacent to an existing or proposed MSHCP Conservation Area, and PCL-23 is located 0.25 mile to the south of the project site. Any applicable requirements regarding lighting, including night lighting, if required by the City, would be implemented accordingly.

Noise

As standard practice, wildlife would not be subject to noise that would exceed residential noise standards. Temporary construction-related noise impacts would be reduced by the implementation of a number of measures, including the following:

- All construction work shall occur during daylight hours. The construction contractor shall limit all construction-related activities that would result in high noise levels according to the construction hours to be determined by the City.
- During all excavation and grading, the construction contractors shall equip all construction equipment, fixed or mobile, with properly operating and maintained mufflers, consistent with manufacturers' standards, to reduce construction equipment noise to the maximum extent possible. The construction contractor shall place all stationary construction equipment so that emitted noise is directed away from sensitive receptors nearest to the project site.
- The construction contractor shall stage equipment in areas that will create the greatest distance between construction-related noise sources and noise-sensitive receptors nearest to the project site during all construction.
- The construction contractor shall limit haul truck deliveries to the same hours specified for construction equipment. To the extent feasible, haul routes shall not pass through sensitive land uses or residential dwellings.

Invasives

Although the proposed project is located 0.25 mile from the nearest Conservation Area, there is still a potential for wind and water to transfer invasive plant material to these areas. The proposed project will not use invasive plants for erosion control, landscaping, windrows, or other purposes. Measure BIO-4 requires the project to comply with the MSHCP and avoid the use of invasive, non-native plants in accordance with MSHCP Table 6-2.

Barriers

Because the project site is not directly adjacent to the MSHCP Conservation Area, barriers and related signage are not necessary.

Grading/Land Development

The project site is not adjacent to an MSHCP Conservation Area. All grading will occur within the proposed project footprint and would not extend into any MSHCP Conservation Area.

5.6.5 Additional Surveys (MSHCP Section 6.3.2)

The project site is not within a CASSA for plants, nor an amphibian or mammal survey area. The project site is located within a BUOW survey area.

Based on the results of the focused BUOW surveys, the project site does not support BUOW. Prior to commencement of ground-disturbing activities within the project site, a pre-construction survey must be conducted within 30 days (RCA 2006; refer to Measure BIO-1 in Section 6.0 below). If BUOW is detected during the pre-construction survey, avoidance of active nests and/or relocation of BUOW would be required as outlined in Measure BIO-1 in Section 6.0 below.

As discussed above and with the implementation of Measure BIO-1, the proposed project is consistent with MSHCP Section 6.3.2.

5.6.6 Fuels Management (MSHCP Section 6.4)

As required by the MSCHP, any required fuel modification impacts would not extend into an MSHCP Conservation Area. The project does not propose any on-site fuel modification nor fuel modification adjacent to the project site. The project is consistent with MSHCP Section 6.4.

5.6.7 Multiple Species Habitat Conservation Plan and Stephens' Kangaroo Rat Fees

For the project to participate in the MSHCP, the Project Proponent is required to pay a Local Development Mitigation Fee (LDMF), which may be used by the RCA to acquire additional conservation lands, manage conservation lands, etc. The LDMF must be paid to the applicable Permittee (e.g., City of Calimesa) prior to the issuance of a building permit. The Project Proponent shall pay the LDMF to the City.

The project site is not within the SKR HCP and is not located within any of the Core Reserves (Riverside County Habitat Conservation Agency 1996). Therefore, the project is not required to pay an SKR mitigation fee for incidental take authorization under the SKR HCP.

6.0 AVOIDANCE/MINIMIZATION and MITIGATION MEASURES

The following provides recommended measures intended to avoid or minimize impacts to biological resources:

BIO-1 **Burrowing Owl:** Prior to the commencement of ground-disturbing activities (i.e., earthwork, vegetation clearing, grubbing, site watering, equipment and vehicle staging, etc.) on the project site, a pre-construction survey for burrowing owl (*Athene cunicularia*; BUOW) shall be conducted by a qualified biologist within 30 days prior to ground disturbance to determine the presence of BUOW. If the pre-construction survey is negative and BUOW is confirmed absent, then ground-disturbing activities shall be allowed to commence, and no further action is required. If construction is inactive for

more than 30 days, a pre-construction survey must be conducted again to confirm BUOW has not colonized the project site since it was last disturbed.

If BUOW is observed during the pre-construction survey, the Project Proponent shall immediately notify the Regional Conservation Authority (RCA) and the Wildlife Agencies (i.e., collectively, California Department of Fish and Wildlife, and U.S. Fish and Wildlife Service). All active burrows and owls shall be avoided with, at a minimum, the establishment of an appropriately sized exclusion buffer, under the oversight of a qualified biologist, to help ensure there would be no direct or indirect impacts to BUOW. The Project Proponent shall also coordinate with the RCA and the Wildlife Agencies to determine whether preparation and implementation of a BUOW Protection and Relocation Plan is necessary.

BIO-2 **Nesting Birds:** If construction activities (i.e., earthwork, vegetation clearing, grubbing, site watering, equipment and vehicle staging, etc.) must occur during the general bird nesting season for migratory songbirds (February 15 through August 31) and raptors (January 15 through August 31), a qualified biologist shall conduct a pre-construction survey of potential nesting habitat to confirm the absence of active nests belonging to migratory birds and raptors afforded protection under the Migratory Bird Treaty Act and California Fish and Game Code. The pre-construction survey shall be performed no more than seven days prior to the commencement of construction activities. If construction is inactive for more than seven days, an additional survey shall be conducted. The qualified biologist shall document the results of the pre-construction survey.

If the qualified biologist determines that no active migratory bird or raptor nests occur, the activities shall be allowed to proceed without any further action. If the qualified biologist determines that an active nest is present, an exclusion buffer shall be established. No impacts within the 300-foot (500 feet for raptors) exclusion buffer shall occur until the young have fledged the nest and the nest is confirmed by the qualified biologist to no longer be active. The biological monitor may modify (decrease or increase) the buffer size and/or propose other avoidance recommendations to help ensure that nesting birds are not disturbed.

BIO-3 **CDFW Jurisdiction and MSHCP Riparian/Riverine Areas**: In order for the project to fully demonstrate consistency with the Multiple Species Habitat Conservation Plan (MSHCP), and prior to preparation of the Final Mitigated Negative Declaration (MND) document, the Joint Project Review (JPR) process with the City of Calimesa, Regional Conservation Authority (RCA) and Wildlife Agencies (i.e., collectively, California Department of Fish and Wildlife, and U.S. Fish and Wildlife Service) shall be completed, including their review and approval of the Determination of Biological Equivalent or Superior Preservation (DBESP).

The JPR process is ongoing, and the final results of the JPR process, including relevant comments from the RCA and the Wildlife Agencies, shall be described in the Final MND, as applicable. Any changes to the proposed compensatory mitigation approach detailed in the DBESP, as required by RCA and Wildlife Agency comments, shall also be updated in the Final MND.

BIO-4 **MSHCP Landscape Plan Restrictions**: In accordance with MSHCP Section 6.1.4, no species listed in Table 6-2, *Plants that Should Be Avoided Adjacent to the MSHCP Conservation Area*, shall be used in the project landscape plans (including hydroseed mix used for interim erosion control).

7.0 CERTIFICATION/QUALIFICATION

The following individuals contributed to the fieldwork and/or preparation of this report:

Ezekiel Cooley	B.S., Natural Resources with an emphasis in Wildlife, Central Michigan University, 2004
Linda Garcia	M.A., English, National University, San Diego, 2012 B.A., Literatures in English, University of California, San Diego, 2003
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Appendix A

Draft Determination of Biologically Equivalent or Superior Preservation

Calimesa 7th Street Project (Currently Proposed as Sandalwood Commercial Development Project and Finance Map)

After-the-Fact Determination of Biologically Equivalent or Superior Preservation Report

January 2026 | 03491.00009.001

Prepared for:

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ACRONYMS AND ABBREVIATIONS

APN	Assessor's Parcel Number
CDFW	California Department of Fish and Wildlife
City	City of Calimesa
County	County of Riverside
DBESP	Determination of Biologically Equivalent or Superior Preservation
ECORP	ECORP Consulting, Inc.
HANS	Habitat Acquisition Negotiation Application
HELIX	HELIX Environmental Planning, Inc.
HMMP	Habitat Mitigation and Monitoring Plan
I-10	Interstate 10
LTMP	Long-Term Management Plan
MND	Mitigated Negative Declaration
MSHCP	Western Riverside County Multiple Species Habitat Conservation Plan
Preserve	Cienega Canyon Preserve
Project	Calimesa 7th Street Project
Project Proponent	Sandalwood Travel Center, LP
RCA	Western Riverside County Regional Conservation Authority
RLC	Rivers and Land Conservancy
ROW	Right of Way
Sandalwood Project	Sandalwood Commercial Development Project and Finance Map
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey

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SUMMARY

The Calimesa 7th Street Project (project or prior project) site is located in the City of Calimesa (City), Riverside County, California. At the request of the Sandalwood Travel Center, LP (current project proponent), HELIX Environmental Planning, Inc. (HELIX) has prepared this Determination of Biologically Equivalent or Superior Preservation (DBESP) analysis to address the project's after-the-fact consistency with the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP; County of Riverside [County] 2003). Project impacts to MSHCP Riparian/Riverine Areas occurred in 2009, and an agency-approved DBESP or record of mitigation implementation could not be located, as the project proponent involved with the prior project and associated approvals is deceased. In the absence of evidence that mitigation credits were ever obtained or that permit-related mitigation was ever implemented for impacts to the project site, the currently proposed Sandalwood Commercial Development Project and Finance Map (Sandalwood Project or proposed project), which encompasses the same footprint as the Calimesa 7th Street Project, must therefore provide an after-the-fact DBESP to demonstrate that the prior project is consistent with the MSHCP.

Specific to the previous Calimesa 7th Street Project, ECORP Consulting, Inc. (ECORP) prepared a Habitat Acquisition Negotiation Application (HANS) in 2007, which included a Biological Report. This report provides the only information known about site conditions prior to the grading that occurred in 2009. Gonzales Environmental Consulting, Inc. completed a formal wetland delineation in October 2005. ECORP conducted a rare plant survey for Narrow Endemic Rare Plant Species within the project site on May 23, 2006 and results were negative. Burrowing owl (*Athene cunicularia*) surveys were completed between August 10 and August 30, 2006, with the results also being negative. The project site did not support a suitable habitat for fairy shrimp or riparian birds.

In 2006, the majority of the project site was composed of non-native grasslands and remnant agriculture uses that involved periodic discing. The project site also originally contained three Riparian/Riverine Areas. These features are referred to in the 2007 Biological Report as "Stream," "Drainage 1," and "Drainage 2." Riversidian sage scrub occurred on the channel slopes and coast live oaks (*Quercus agrifolia*) in the lower elevation areas. There was a small stand of ornamental trees along the central eastern boundary, which is still currently present. The project site consisted of 1.12 acres of Riparian/Riverine Areas, which were filled in 2009 and are no longer present on the site.

A DBESP requires that the proposed compensatory mitigation include an approach that would result in biologically equivalent or superior functions and values as compared to the originally impacted functions and values on the project site. HELIX has identified a mitigation approach within the Cienega Canyon Preserve (the Preserve) and has worked directly with the Wildlife Agencies (California Department of Fish and Wildlife and U.S. Fish and Wildlife Service) and the Rivers and Land Conservancy. Through ongoing coordination spanning back to September 2024, the Wildlife Agencies have provided assistance and indicated that the following mitigation would provide equivalent or superior preservation of functions and values as compared to the originally impacted functions and values on 1.12 acres of Riparian/Riverine Areas: (1) enhance/restore 3.14 acres (approximately 3:1 ratio) within Cienega Creek in the southeast portion of the CPP; and (2) fund and prepare a hydrology report and grading plan to support restoration of over 65 acres of wetland meadow within the Preserve to its historic cienega condition. With the implementation of these two mitigation components, the project will provide appropriate mitigation to compensate for the 2009 impacts to MSHCP Riparian/Riverine Areas.

1.0 INTRODUCTION

At the request of the Sandalwood Travel Center, LP (current project proponent), HELIX Environmental Planning, Inc. (HELIX) prepared this Determination of Biologically Equivalent or Superior Preservation (DBESP) analysis to address after-the-fact consistency of the Calimesa 7th Street Project (project or prior project) with the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP; County of Riverside [County] 2003), specifically with MSHCP Sections 6.1.2 (Riparian/Riverine), 6.1.3 (Narrow Endemic Plant Species), and 6.3.2 (Additional Surveys and Procedures). Project consistency with other sections of the MSHCP is addressed in the Habitat Acquisition Negotiation Application (HANS; ECORP Consulting, Inc. [ECORP] 2007; Appendix A, *2007 HANS Application*). Project impacts to MSHCP Riparian/Riverine Areas occurred in 2009, but no approved DBESP or any other permit-related mitigation documentation could be located by the landowner, City of Calimesa (City), Western Riverside County Regional Conservation Authority (RCA), or Wildlife Agencies (California Department of Fish and Wildlife [CDFW] and U.S. Fish and Wildlife Service [USFWS]). The currently proposed Sandalwood Commercial Development Project and Finance Map (Sandalwood Project or proposed project), which encompasses the same footprint as the Calimesa 7th Street Project, must therefore provide an after-the-fact DBESP to demonstrate that the prior project is consistent with the MSHCP before RCA can issue findings of consistency for the currently proposed project.

This after-the-fact DBESP analysis provides information necessary for the City (MSHCP Permittee), RCA, and the Wildlife Agencies to find that the 2009 project impacts to Riparian/Riverine Areas, with mitigation and conservation measures incorporated, would adequately result in a biologically equivalent or superior MSHCP Conservation Area design and configuration compared to the pre-2009 baseline condition.

1.1 PROJECT LOCATION

The approximate 9.3-acre[1] project site evaluated in this report consists of two parcels, Assessor's Parcel Numbers (APN) 411-210-006 and -024. The project site is generally located west of Interstate (I) 10 and north of Sandalwood Drive (Figure 1, *Regional Location*). The project site is within Section 14 of Township 2 South, Range 2 West on the U.S. Geological Survey (USGS) 7.5-minute El Casco quadrangle (Figure 2, *USGS Topography*). The project site is bordered by 7th Street to the west and I-10 to the east (Figure 3, *Aerial Photograph [2009]*). It is located approximately 400 feet north of the intersection of 7th Street and Sandalwood Drive.

1.2 SITE HISTORY AND PROJECT DESCRIPTION

A Mitigated Negative Declaration (MND) for the project was adopted by the City in July 2007 (State Clearinghouse 2007031152). The MND evaluated the same project site (i.e., APNs 411-210-006 and -024) assessed in this report. The previous project consisted of rough grading the project site and drainage improvements, including installation of subsurface storm drain infrastructure (Figure 4, *Erosion Control Plan [2009]*). The project site was graded in 2009 as part of prior entitlements. No other

[1] Note that the 2007 Biological Report (ECORP 2007) referred to the previous project site as being approximately 10 acres in size. This same previous project site was actually 9.3 acres, and this adjusted acreage size will be used herein for accuracy. In addition, note that the MSHCP Consistency Analysis Report for the currently proposed project includes a larger 11.2-acre project site intended to also encompass 1.9 acres of off-site improvements. These additional 1.9 acres were not part of the previous project, and thus, are not covered under this after-the-fact DBESP.

construction has occurred within the project site since 2009, and the project site does not currently support any MSHCP Riparian/Riverine Areas. Because there are no remaining MSHCP Riparian/Riverine Areas on the site, the currently proposed Sandalwood Project would not impact MSHCP Riparian/Riverine Areas; however, the previous project mitigation requirement still needs to be satisfied.

The 2009 grading and drainage improvements resulted in impacts to MSHCP Riparian/Riverine Areas, which would have required a DBESP that proposed adequate mitigation. A DBESP or other permit-related mitigation documentation cannot be located by the landowner, City, RCA, or the Wildlife Agencies. Given that mitigation requirements and implementation cannot be verified, the project proponent and landowner have identified adequate mitigation for prior project impacts to MSHCP Riparian/Riverine Areas. This after-the-fact DBESP was prepared to demonstrate that the proposed mitigation provides equivalent or superior preservation for prior impacts that occurred on the project site.

1.3 EXISTING CONDITIONS

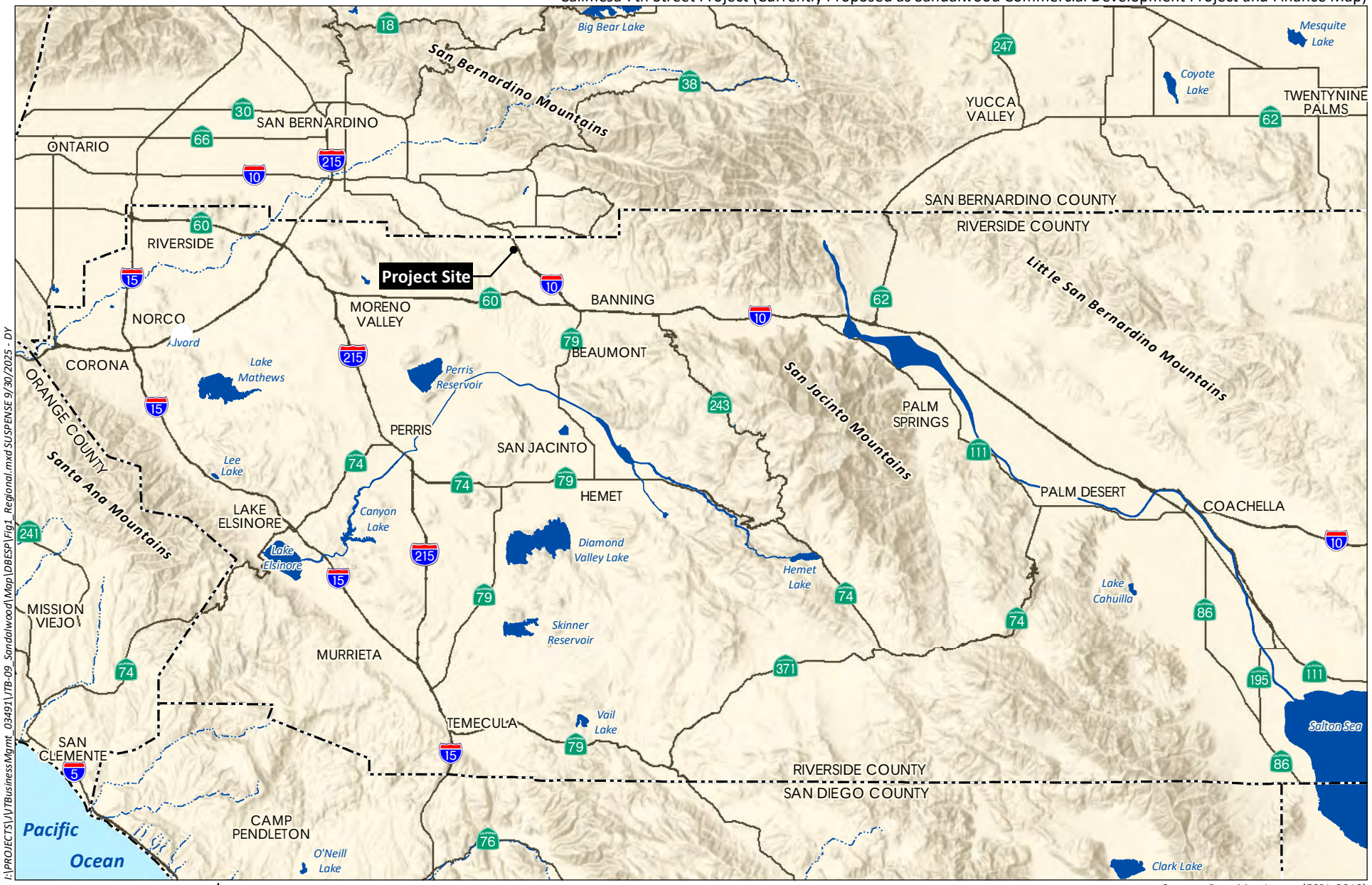
Pre-project conditions (i.e., prior to 2009) are documented in the project's HAN'S application, which also included the 2007 Biological Report (Appendix A). As described in Sections 3.1 and 3.3 of the Biological Report, the majority of the project site was composed of non-native grasslands and remnant agricultural uses that periodically involved discing. Prior to 2009, the project site also contained three Riparian/Riverine Areas, which are referred to in the 2007 Biological Report as "Stream," "Drainage 1," and "Drainage 2." Riversidian sage scrub occurred on the channel slopes and coast live oak trees in the lower elevation areas. There was a small stand of ornamental trees along the central eastern boundary, which is still currently present. Elevations on the project ranged from approximately 2,340 feet (713 meters) to 2,368 feet (722 meters). The soils mapped on the project site include Ramona very fine sandy loam (0 to 8 percent slopes) and San Timoteo loam (25 to 50 percent slopes; Appendix A).

The project site is located within a Narrow Endemic Plant Species Survey Area and Burrowing Owl (*Athene cunicularia*) Survey Area as designated by the MSHCP. All pre-2009 survey results were negative and no mitigation or further action regarding these resources was required. As such, these resources will not be discussed further in this after-the-fact DBESP.

The project site is not located within a Criteria Area Species Survey Area (CASSA) for plants, Amphibian Survey Area, or Mammal Survey Area designated by the MSHCP, and does not support suitable soils for Delhi sands flower-loving fly (*Rhaphiomidas terminatus abdominalis*). Resources associated with a CASSA, Amphibian Survey Area, Mammal Survey Area, and Delhi sands are not discussed further in this DBESP.

Representative photographs taken of the site in 2007 are included in this report as Appendix B, *Site Photographs*.

Calimesa 7th Street Project (Currently Proposed as Sandalwood Commercial Development Project and Finance Map)

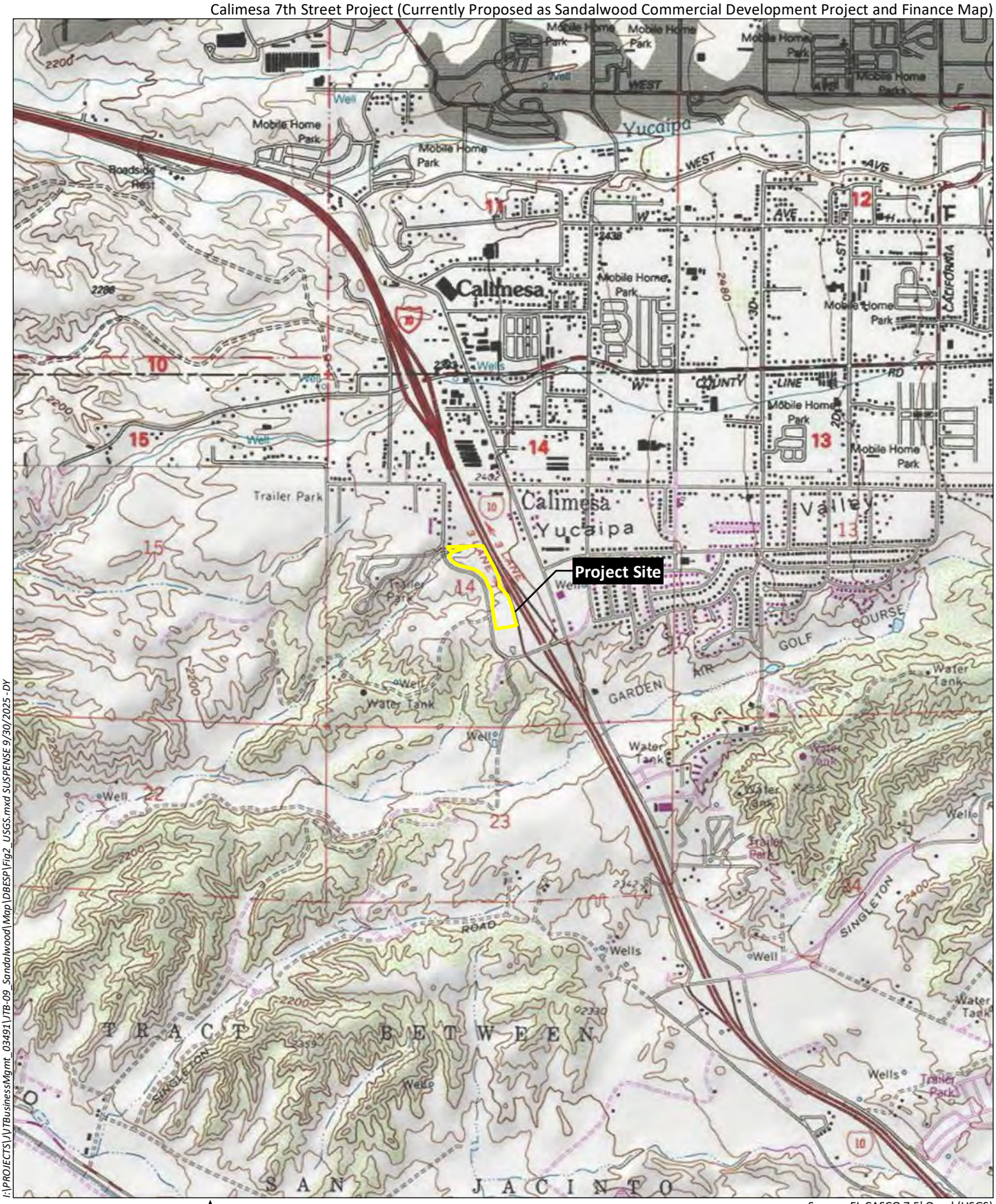


Source: Base Map Layers (ESRI, 2013)

HELIX Environmental Planning

Regional Location

Figure 1

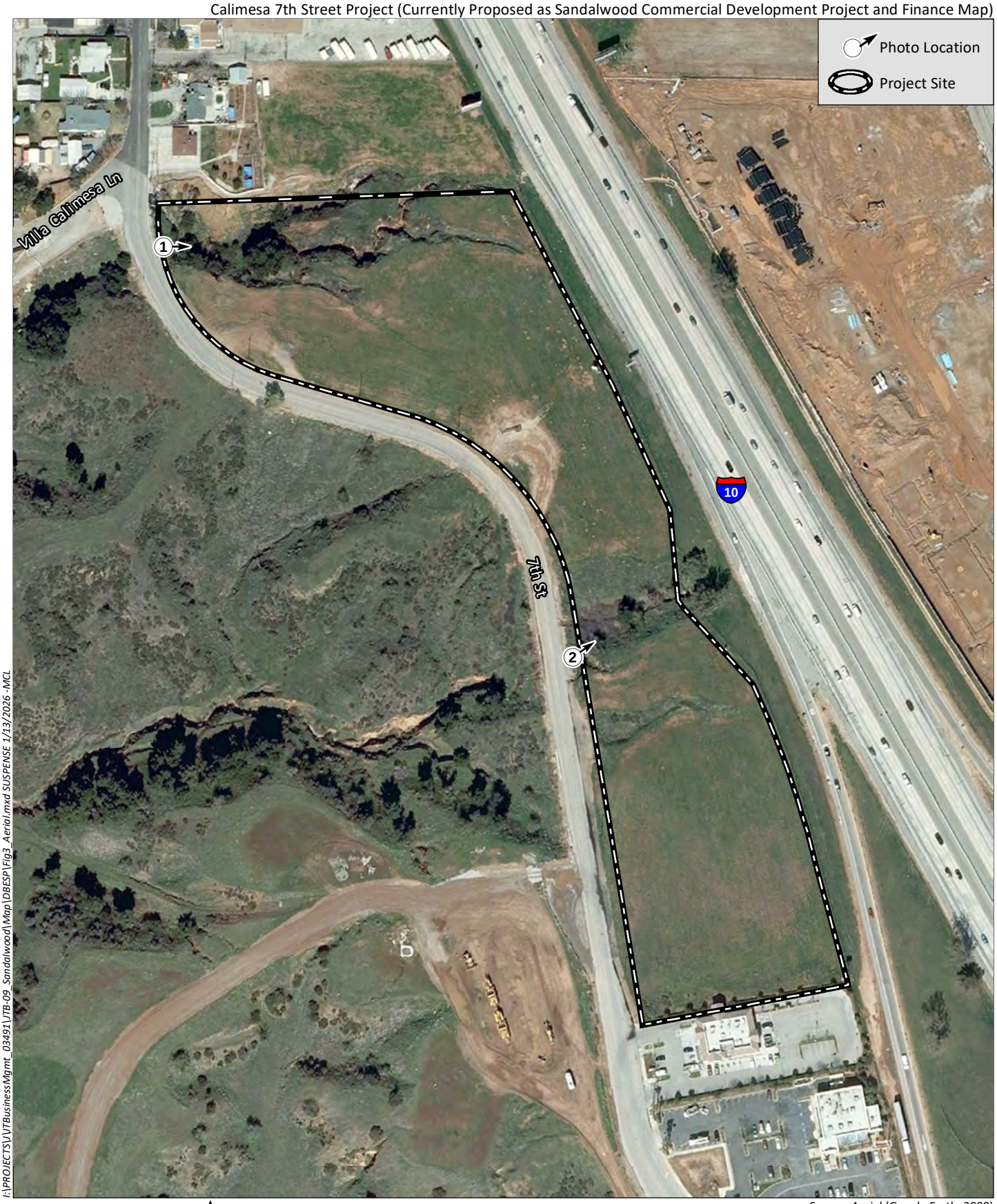


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Source: EL CASCO 7.5' Quad (USGS)

USGS Topography

Figure 2



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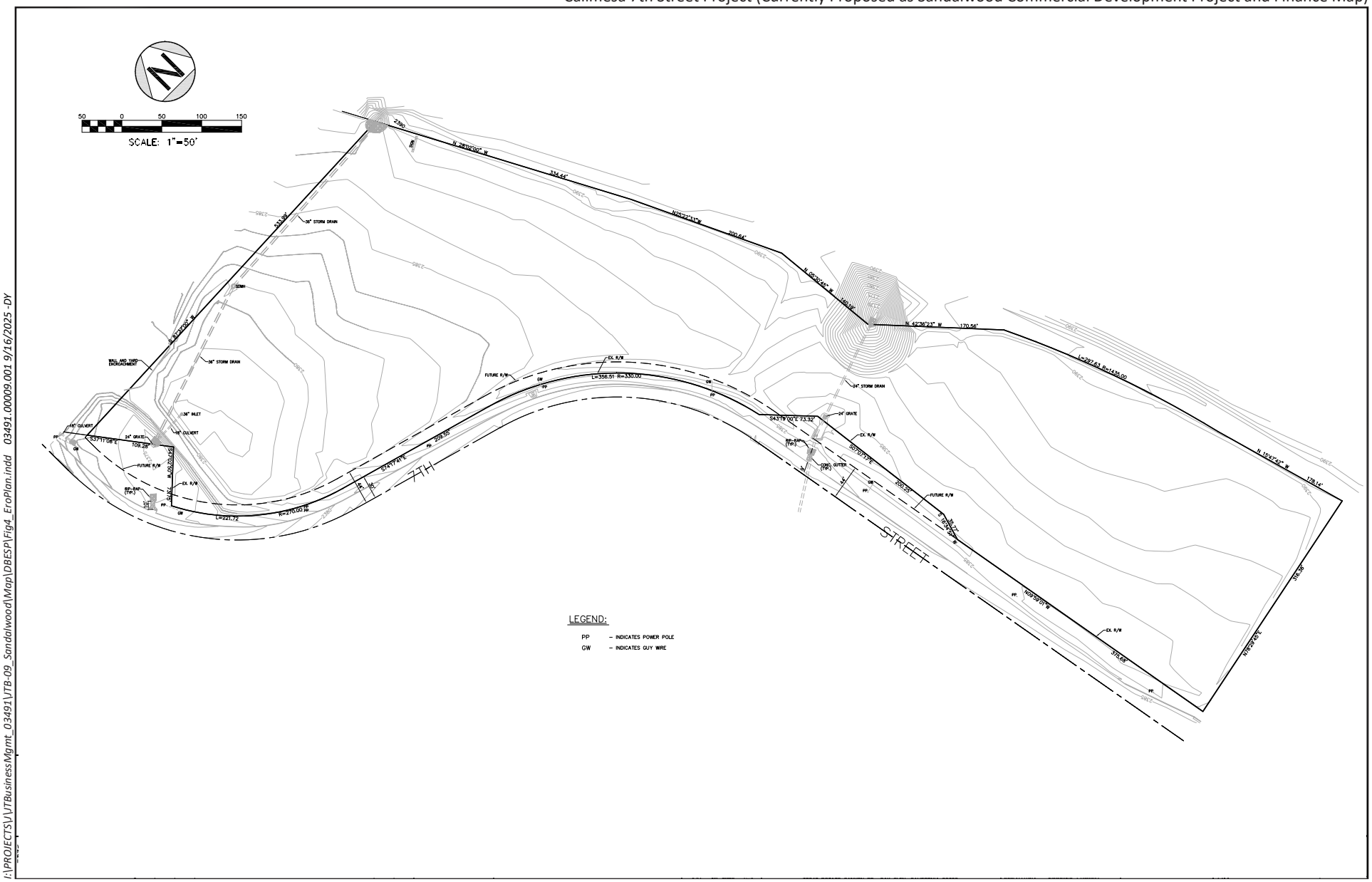
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Source: Aerial (Google Earth, 2009)

HELIX Environmental Planning

Aerial Photograph (2009)

Figure 3



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Source: SITE TECH INC.

HELIX Environmental Planning

Erosion Control Plan (2009)

Figure 4

2.0 RIPARIAN/RIVERINE AREAS AND VERNAL POOLS (MSHCP SECTION 6.1.2)

2.1 METHODS

2.1.1 Riparian/Riverine Areas and Vernal Pools

Gonzales Environmental Consulting, Inc. completed a formal wetland delineation in October 2005. This report is referenced in the 2007 Biological Report (Attachment A), but was not appended to the 2007 Biological Report.

Riparian/Riverine Areas are defined in MSHCP Section 6.1.2 as follows:

> "Riparian/Riverine Areas are lands that contain habitat dominated by trees, shrubs, persistent emergents, or emergent mosses and lichens, which occur close to or depend upon soil moisture from a nearby freshwater source; or areas with freshwater flow during all or a portion of the year."

Vernal Pools are defined in MSHCP Section 6.1.2 as:

> "Vernal Pools are seasonal wetlands that occur in depression areas that have wetland indicators of all three parameters (soils, vegetation, and hydrology) during the wetter portion of the growing season but normally lack wetland indicators of hydrology and/or vegetation during the drier portion of the growing season. Obligate hydrophytes and facultative wetlands plant species are normally dominant during the wetter portion of the growing season, while upland species (annuals) may be dominant during the drier portion of the growing season. The determination that an area exhibits vernal pool characteristics and the definition of the watershed supporting vernal pool hydrology must be made on a case-by-case basis. Such determinations should consider the length of time the area exhibits upland and wetland characteristics and the manner in which the area fits into the overall ecological system as a wetland. Evidence concerning the persistence of an area's wetness can be obtained from its history, vegetation, soils, and drainage characteristics, uses to which it has been subjected, and weather and hydrologic records."

Section 6.1.2 of the MSHCP states that "areas demonstrating characteristics [of riparian/riverine habitat] which are artificially created are not included in these definitions" of Riparian/Riverine Areas.

2.1.2 Plant Species

The MSHCP lists 23 plant species that have the potential to occur in Riparian/Riverine and/or Vernal Pool habitats within the MSHCP Plan Area, which are listed below in Table 1, *MSHCP Riparian/Riverine and Vernal Pool Plant Species*. The project site was evaluated on May 23, 2006 to determine the potential for these species to occur.

Table 1
MSHCP RIPARIAN/RIVERINE AND VERNAL POOL PLANT SPECIES

Common Name	Scientific Name	Habitat
Brand's phacelia	*Phacelia stellaris*	Sandy washes and/or benches in alluvial flood plains.
California black walnut	*Juglans californica*	Open savannahs, creek beds, alluvial terraces, and north-facing slopes.
California Orcutt grass	*Orcuttia californica*	Vernal pools.
Coulter's matilija poppy	*Romneya coulteri*	Dry washes and canyons in chaparral and coastal sage scrub communities and disturbed areas.
Engelmann oak	*Quercus engelmannii*	Woodlands, mixed chaparral, and savannah grasslands.
Fish's milkwort	*Polygala cornuta* var. *fishiae*	Shaded, rocky places in canyons associated with woodlands and chaparral.
graceful tarplant	*Holocarpha virgata* ssp. *elongata*	Coastal mesas and foothills with grassland habitats.
lemon lily	*Lilium parryi*	Moist montane meadows.
Mojave tarplant	*Deinandra mohavensis*	Drainages within arid montane chaparral.
mud nama	*Nama stenocarpum*	Marshes, swamps, lake margins, and riverbanks along muddy embankments.
ocellated Humboldt lily	*Lilium humboldtii* ssp. *ocellatum*	Shaded montane canyons.
Orcutt's brodiaea	*Brodiaea orcuttii*	Vernally moist grasslands and vernal pools; occasionally occurs along stream embankments within clay soils.
Parish's meadowfoam	*Limnanthes gracilis* var. *parishii*	Montane meadows with abundant annual and herbaceous perennials and lack of shrubs.
prostrate navarretia	*Navarretia prostrata*	Coastal sage scrub, valley and foothill grassland, and vernal pools.
San Diego button-celery	*Eryngium aristulatum* var. *parishii*	Vernal pools.
San Jacinto Valley crownscale	*Atriplex coronata* var. *notatior*	Highly alkaline and silty-clay soils associated with alkali sink scrub, alkali playa, vernal pool, and annual alkali grassland habitats.
San Miguel savory	*Clinopodium chandleri*	Coastal sage scrub, chaparral, cismontane woodland, riparian woodland, and valley and foothill grasslands.
Santa Ana River woolly-star	*Eriastrum densifolium* spp. *sanctorum*	Sandy soils on flood plains and terraces within coastal scrub and chaparral communities.
slender-horned spineflower	*Dodecahema leptoceras*	Sandy soil associated with alluvial scrub; is often found on stream terraces and banks.

Common Name	Scientific Name	Habitat
smooth tarplant	*Centromadia pungens* ssp. *Laevis*	Alkali scrubs, playas, and grasslands; riparian woodland and streams.
spreading navarretia	*Navarretia fossalis*	Vernal pools, depressions, and ditches.
thread-leaved brodiaea	*Brodiaea filifolia*	Clay soils in vernally moist grasslands and vernal pool periphery are typical locales.
vernal barley	*Hordeum intercedens*	Saline flats and depressions in grasslands or vernal pools.

Source: County of Riverside (2003)

2.1.3 Wildlife Species

The MSHCP lists 12 sensitive wildlife species that have the potential to occur in Riparian/Riverine and/or Vernal Pool habitats within the MSHCP Plan Area, which are provided in Table 2, *MSHCP Riparian/Riverine and Vernal Pool Wildlife Species*. The project site was evaluated on May 23, 2006, for these species to have the potential to occur.

Table 2
MSHCP RIPARIAN/RIVERINE AND VERNAL POOL WILDLIFE SPECIES

Common Name	Scientific Name	Habitat
Riverside fairy shrimp	*Streptocephalus woottoni*	Deep vernal pools and other ephemeral basins that hold water for typically 30 or more days.
Santa Rosa Plateau fairy shrimp	*Linderiella santarosae*	Limited to vernal pools within the Santa Rosa Plateau.
vernal pool fairy shrimp	*Branchinecta lynchi*	Vernal pools and other ephemeral basins within patches of grassland and agriculture interspersed in coastal sage scrub and chaparral.
arroyo toad	*Anaxyrus californicus*	Washes and intermittent streams with open-canopy riparian forest.
California red-legged frog	*Rana aurora draytonii*	Perennial streams with dense, shrubby riparian vegetation.
mountain yellow-legged frog	*Rana muscosa*	Perennial waterways, often within open riparian vegetation.
Santa Ana sucker	*Catostomus santaanae*	Clear, cool perennial streams with loose sand, gravel, cobble, and boulders with algae, aquatic emergent vegetation, macroinvertebrates, and riparian vegetation.
bald eagle	*Haliaeetus leucocephalus*	Within proximity to lakes or other water bodies.
least Bell's vireo	*Vireo bellii pusillus*	Well-developed riparian scrub, woodland, or forest.
peregrine falcon	*Falco peregrinus*	Generally, areas with cliffs or tall buildings near water where prey (shorebirds and ducks) is concentrated.
southwestern willow flycatcher	*Empidonax traillii extimus*	Breeds within thickets of willows or other riparian understory usually along streams, ponds, lakes, or canyons.

Common Name	Scientific Name	Habitat
western yellow-billed cuckoo	*Coccyzus americanus occidentalis*	Extensive stands of mature riparian woodland.

Source: County of Riverside (2003)

The MSHCP requires focused surveys to be conducted for projects that propose impacts to three invertebrate and three bird species, as described in detail below.

Invertebrates

Three sensitive fairy shrimp species occur in the MSHCP Plan Area, including Riverside fairy shrimp (*Streptocephalus woottoni*), Santa Rosa Plateau fairy shrimp (*Linderiella santarosae*), and vernal pool fairy shrimp (*Branchinecta lynchi*). Vernal pool fairy shrimp occurs throughout the Central Valley and in several disjunct populations in the County. This species exists in vernal pools and other ephemeral basins, often located in patches of grassland and agriculture interspersed in coastal sage scrub and chaparral. Riverside fairy shrimp occurs in Riverside, Orange, and San Diego counties, as well as in northern Baja California, Mexico. This species is typically found in deeper vernal pools and other ephemeral basins that hold water for long periods of time (30 or more days). Santa Rosa Plateau fairy shrimp is limited to the Santa Rosa Plateau in the County.

Birds

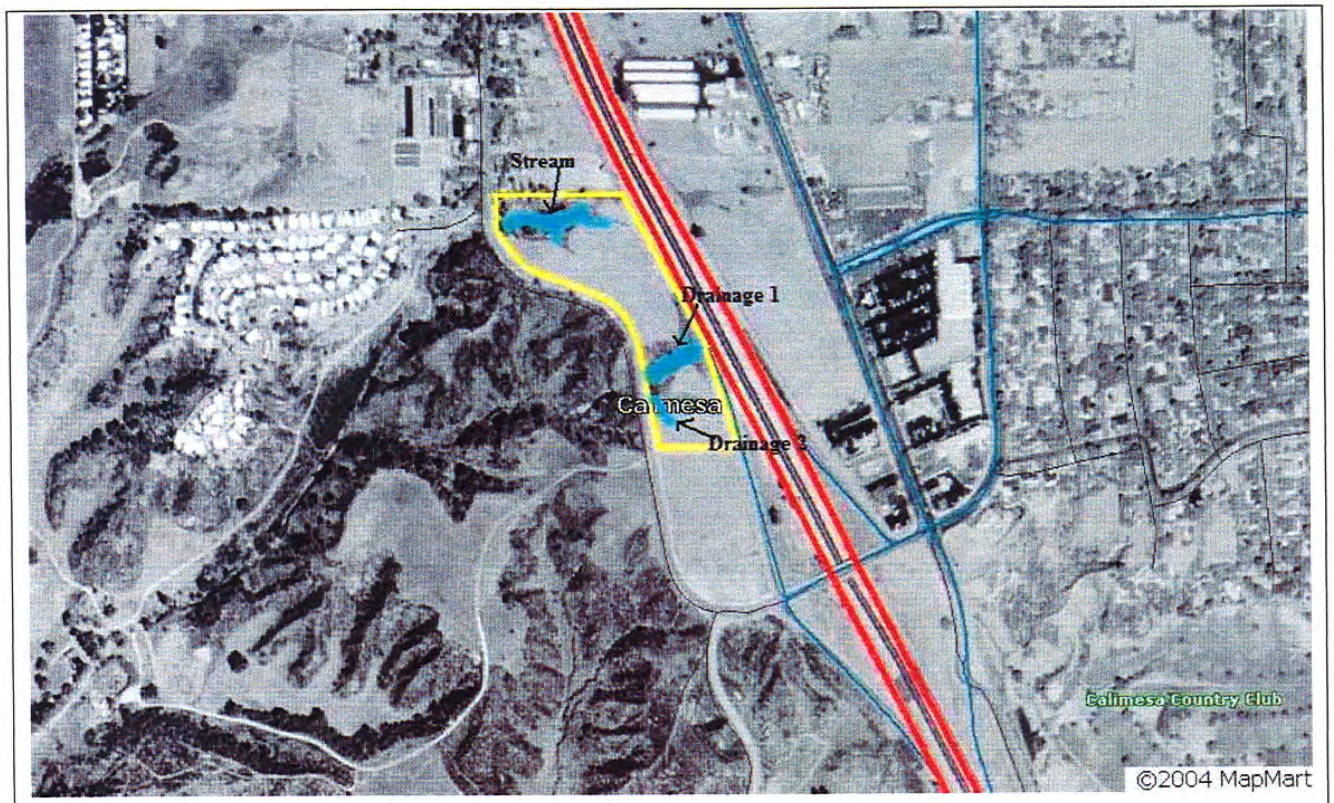
Riparian/Riverine Areas within the MSHCP Plan Area provide suitable habitat for sensitive bird species, such as least Bell's vireo (*Vireo bellii pusillus*), southwestern willow flycatcher (*Empidonax traillii extimus*), western yellow-billed cuckoo (*Coccyzus americanus occidentalis*), bald eagle (*Haliaeetus leucocephalus*), and peregrine falcon (*Falco peregrinus*). Typical habitat least Bell's vireo consists of well-developed riparian scrub, woodland, or forest dominated by willows, mule fat, and Fremont cottonwood. Least Bell's vireo will also use small patches of trees adjacent to dense, riparian habitat. Southwestern willow flycatcher and yellow-billed cuckoo require mature riparian forest with a stratified canopy and nearby water. Both the bald eagle and peregrine falcon occur primarily in and adjacent to open water habitats, with peregrine falcon occurring in riparian areas.

The MSHCP requires focused surveys to be conducted for projects that propose impacts to suitable habitat for least Bell's vireo, southwestern willow flycatcher, and/or yellow-billed cuckoo.

2.2 RESULTS

2.2.1 Riparian/Riverine Areas and Vernal Pools

Based on the 2007 Biological Report in the HANS application (Appendix A), the project site historically supported three MSHCP Riparian/Riverine Areas, with Stream 1 in the northern portion of the project site and Drainages 1 and 2 in the center of the site (Figure 5, *MSHCP Riparian/Riverine Areas [2007]*). The MSHCP Riparian/Riverine Areas totaled 1.12 acres, including 0.51 acre at the Stream, 0.13 acre at Drainage 1, and 0.48 acre at Drainage 2 (Table 3, *MSHCP Riparian/Riverine Areas*).



Yellow=Project area
Turquoise=Drainages

Scale: m 100 200 300
yds 100 200 300

Source: USGS aerial photo dated June 1, 2002
Please note that this is a locality map, and should not be used for calculations

Source: ECORP Consulting, Inc (2007)

I:\PROJECTS\VTBusinessMgmt_03491\VTB-09_Sandalwood\Map\DBESP\Fig5_MSHCP.indd 03491.00009.001 9/16/2025 - DY

Table 3
MSHCP RIPARIAN/RIVERINE AREAS

Feature Name	Acres[1]
Stream	0.51
Drainage 1	0.13
Drainage 2	0.48
TOTAL	**1.12**

[1] Acreages rounded to the nearest hundredth.

2.2.2 Plant Species

None of the 23 Riparian/Riverine plant species were noted during the rare plant survey conducted by ECORP on May 23, 2006 (refer to Section 3.6.1 of Appendix A). Although this DBESP is only focused on the previous 2009 impacts, it should be noted that conditions on the site have remained the same, meaning these plant species were also not found during the more recent survey efforts.

2.2.3 Wildlife Species

The 2007 Biological Report (Appendix A) stated that the project site does not support suitable habitat for fairy shrimp species. Soils within the project site were mapped as Ramona very fine sandy loam and San Timoteo loam, which are well-drained soils and not conducive to ponding. Prior to 1996, Drainage 2 was connected to Drainage 1. Sometime between 1996 and 2002, there appeared to be earthwork that separated the surface connection between the two drainages. It is unlikely that earthwork was completed without providing an outlet for water to flow from Drainage 2 to Drainage 1. A pipe may have been installed between Drainages 1 and 2 to allow water to continue to flow. This is supported given that no ponding is visible in aerial imagery from 1996 until 2009 (when grading occurred). Of the listed fairy shrimp species, Riverside fairy shrimp would have had the highest potential to occur within the project site based on geographic range. However, this species requires deep, persistent pools, which were not recorded in the 2007 Biological Report and are not visible in aerial imagery. Therefore, focused surveys were not warranted.

As stated in the 2007 Biological Report, Section 3.6 (Appendix A), the project site did not support suitable habitat for riparian bird species (least Bell's vireo, southwestern willow flycatcher, or yellow-billed cuckoo). Willow scrub or riparian forest habitats were not documented on the project site and do not appear to have been present based on historical aerial imagery review. Therefore, focused surveys were not warranted. Although this DBESP is only focused on the previous 2009 impacts, it should be noted that recent survey efforts have verified that conditions on the site have remained the same, meaning suitable habitat for these riparian bird species continues to be absent.

2.3 PROJECT IMPACTS

2.3.1 Riparian/Riverine Areas

The prior project resulted in 1.12 acres of permanent impacts to MSHCP Riparian/Riverine Areas. These drainage features were filled and replaced with a sub-surface storm drain system in 2009.

2.3.2 Plant Species

No Riparian/Riverine plant species were documented on the project site.

2.3.3 Wildlife Species

The project site did not support a suitable habitat for Riparian/Riverine wildlife species.

2.4 MITIGATION AND EQUIVALENCY

2.4.1 Direct Effects

The 2009 project impacted approximately 1.12 acres of permanent impact to Riparian/Riverine Areas, which included impacts to unvegetated streambed, coast live oaks, and Riversidian sage scrub. To provide equivalent or superior compensatory mitigation for after-the-fact impacts on the project site, HELIX has developed a compensatory mitigation approach within the Cienega Canyon Preserve (Preserve) and worked directly with the Wildlife Agencies and Rivers and Land Conservancy (RLC), the Preserve owner. Agency coordination has consisted of several meetings spanning back to September 5, 2024.

The Preserve is in the City of Calimesa and is located within the same watershed (Santa Ana Watershed) and MSHCP Plan Area (Pass Area) as the project site. Considered together, the Wildlife Agencies have indicated that the following will provide equivalent or superior preservation for project impacts to 1.12 acres of Riparian/Riverine Areas:

1. **Cienega Creek Mitigation Area** – approximately 3.14 acres (approximately 3:1 ratio) of off-site riparian enhancement and establishment, as well as riparian-transition establishment within Cienega Creek. This also includes replacement/improvement of a failing culvert that provides primary access to the Preserve.

2. **Cienega Hydrology & Grading Study** – includes funding and preparation of a hydrology report and grading plan to support restoration of over 65 acres of wetland meadow within the Preserve to return it to its historic cienega condition.

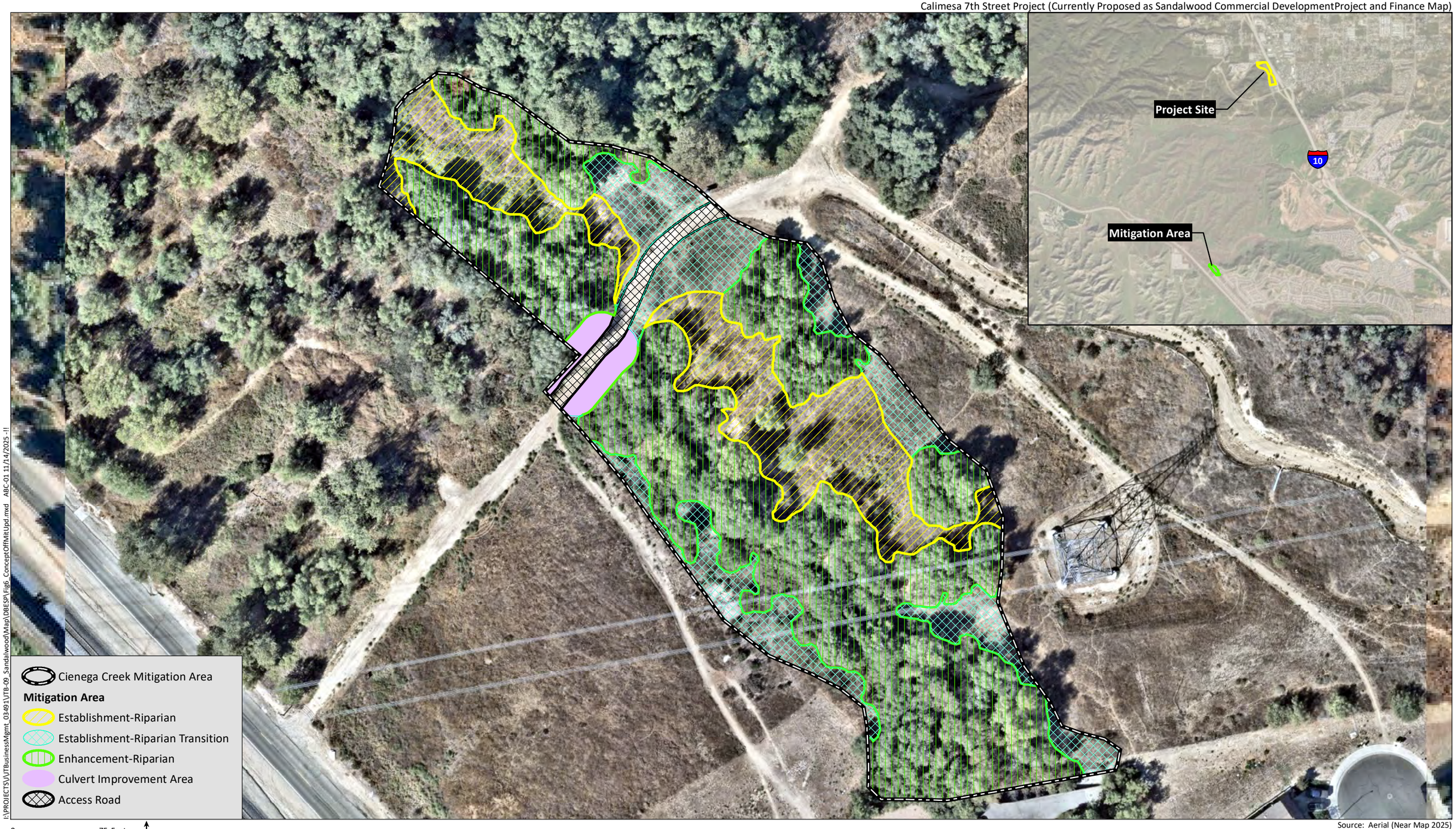
The proposed compensatory mitigation components are described in detail below.

<u>Cienega Creek Mitigation Area</u>

The Cienega Creek mitigation area is proposed within the Preserve, which is located on the east side of San Timoteo Canyon Road, approximately 0.5 mile northwest of the San Timoteo Canyon Road and Palmer Avenue intersection (Figure 6, *Conceptual Off-site Mitigation*). Specifically, the 3.14-acre mitigation area is located within Cienega Creek in the southwest corner of the Preserve near San Timoteo Canyon Road and southwest of the historic cienega feature. Upstream of the mitigation area, Cienega Creek was channelized by the Summerwind Residential Development (southeast of the Preserve) in late 2005. Cienega Creek is a tributary of San Timoteo Creek.

The final mitigation grading/planting design is pending completion of a hydrology study, which is currently underway. Upon completion of the hydrology/grading study report (described in the subsequent section), a Habitat Mitigation and Monitoring Plan (HMMP) will be prepared, followed by

Calimesa 7th Street Project (Currently Proposed as Sandalwood Commercial DevelopmentProject and Finance Map)



Source: Aerial (Near Map 2025)

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HELIX Environmental Planning

Conceptual Off-Site Mitigation

Figure 6

preparation of a Long-Term Management Plan (LTMP). The project proponent will be responsible for the long-term funding needs for the mitigation area, which will be detailed in the LTMP. Both the HMMP and LTMP will be reviewed and approved by RLC.

Mitigation within the 3.14-acre mitigation area will consist of a combination of establishment and enhancement, which are described below.

- *Riparian Establishment*: A pilot channel will be graded parallel to the existing streambed on the northeast side to help dissipate flows and help support native riparian plant establishment. Non-native species will be removed, and native riparian species will be planted within roughly 0.67 acre.

- *Riparian-transition Establishment*: Non-native species will be removed, and riparian-transition species will be planted within roughly 0.58 acre next to existing riparian habitat and proposed riparian establishment within the mitigation area.

- *Riparian Enhancement*: Non-native species will be removed within roughly 1.83 acres of existing riparian vegetation.

Other improvements within the mitigation area will include:

- *Culvert Improvements:* Drainage within the mitigation area will be improved, which will encompass roughly 0.06 acre. The culvert that conveys flow from Cienega Creek at the downstream end of the mitigation area is old and filled with sediment. The culvert improvements are necessary to increase sediment transport and stormwater flow into the proposed widened streambed and proposed excavated flood terrace to support the proposed downstream riparian establishment area. While culvert designs are still being completed, the proposed culvert replacement will be contained within the improvement area shown in Figure 6 and will likely include a new headwall and riprap. Native and locally sourced riparian species will be planted to ensure highest survivability, and the culvert improvement area is expected to support riparian canopy.

- *Access Road:* The primary access to the Preserve from San Timoteo Canyon Road is via an unpaved road, of which 0.07 acre overlaps the mitigation area. Although shown within the mitigation area, this acreage is not included in the 3.14 acres of proposed mitigation. The sediment-choked culvert described above results in frequent flooding of the access road. The access road is often inaccessible to RLC during and after typical storm events, which poses challenges for their site management and community programs. Southern California Edison (SCE) holds easements within the Preserve, and regular access via the road/stream crossing is required to inspect and maintain their power line facilities. The improved culvert will reduce flooding, ensuring reliable access for RLC, SCE, Riverside County Parks and Open Space District, staff managing MSCHP resources, and other entities requiring entry to the Preserve.

Cienega Hydrology & Grading Study Report

In addition to the Cienega Creek mitigation, at the Wildlife Agencies' request, the project proponent will fund preparation of a hydrology/grading study report (Cienega Study) that will expand on a 36-acre study area in the upper cienega of the Preserve that was analyzed in a prior conceptual

hydrology/grading study report (Tory R. Walker Engineering 2021). Within the Preserve, mitigation for permanent impacts to jurisdictional waters have not been finalized, approved by RLC, funded, or implemented for an unrelated construction project (Oak Valley Town Center Commercial Development). The Oak Valley Town Center project site is located directly north/northeast of the Preserve, and the project went bankrupt following the completion of grading in early 2024. Their proposed 36-acre mitigation remains in limbo as CDFW legal works to secure the surety bond for the mitigation.

Pursuant to a Memorandum of Understanding between RLC and the RCA executed March 20, 2017, 31.16 acres of the Preserve are considered Public Quasi-Public lands under the MSHCP and the remainder 326.66 acres of the Preserve are considered MSHCP Additional Reserve Lands. In the pre-1800s, the valley floodplain known as "the cienega" encompassed over 80 acres of the 357.82-acre Preserve. The cienega was historically one of only a few known wetland meadows occurring in southern California. In fact, the Spanish word "ciénega" refers to wetland systems unique to the American Southwest and Northern Mexico that feature alkaline, freshwater, spongy, wet meadows with shallow saturated soils nestled in arid environments.

Unfortunately, agricultural activities that occurred in the late 1800s and into the 1990s, combined with the contemporary placement of undersized I-10 culverts upstream of the Preserve have resulted in severe degradation of the unique wet meadow habitat that likely once thrived on the property. The Cienega Restoration Study will provide expanded hydrology/grading analysis and will be prepared as part of the project mitigation efforts to cover the entire 65-plus acres of the cienega valley floor located within the Preserve, thereby providing the framework for RLC to restore the entirety of the cienega valley over time. Thus, the Cienega Study will be tremendously valuable both to RLC and the MSHCP for the future restoration of the cienega. RLC acquired the Preserve from Oak Valley Partners, L.P., in 2003 using grant funding it acquired from the State of California Wildlife Conservation Board. There is no dedicated stewardship endowment for the Preserve and RLC conducts limited management using grants and general operating funds. Thus, RLC does not currently have the capacity to fund such a study in excess of $100,000. Restoration of the cienega will help return historic biological function and values to the cienega while also generating funding that RLC can use to manage the Preserve's extremely unique habitats.

Equivalent and Superior Preservation Discussion

The impacted Riparian/Riverine Areas on the project consisted of headwater ephemeral streambeds with coast live oak in the drainage bottoms (with little to no understory) and Riversidian sage scrub on the drainage slopes. The proposed mitigation encompasses perennial streambed with associated riparian and wetland habitat and is considered of significantly higher biological function and value than the impacted areas on the project site. Functions lost from the impacted Riparian/Riverine Areas include groundwater recharge, nutrient cycling (e.g., nitrogen, phosphorous), limited sediment transport (due to the headwater conditions and culvert at 7th Street), and potential wildlife habitat. According to the project's 2007 Biological Report, the project site Riparian/Riverine Areas did not support suitable habitat for Riparian/Riverine wildlife, with no Riparian/Riverine plant species being documented during rare plant surveys. The project site did not function as a wildlife movement corridor given the I-10 freeway at the upstream end constraining wildlife movement through the area. In contrast, the proposed mitigation at the Preserve will restore and improve hydrological and ecological functions by installing a pilot channel and improving the culvert crossing, which is currently ineffective due to its age and significant sediment accumulation. Improvements to the culvert will not only benefit the proposed mitigation area both upstream and downstream of the culvert, but these actions will also reestablish

this important primary access point to the Preserve. Riparian and wetland habitat quality will be enhanced by removing non-native and invasive species and planting native species. The proposed mitigation will improve habitat connectivity within the Preserve and provide benefits to downstream Riparian/Riverine Areas throughout the MSHCP Plan Area. The proposed mitigation will expand high-quality habitat in the Preserve for Riparian/Riverine animals within the Preserve, such as least Bell's vireo, which has previously been observed in existing riparian areas adjacent to the proposed mitigation area. The proposed mitigation will support MSHCP conservation objectives and strengthening long-term watershed resilience.

In addition, preparation of the Cienega Study described above will establish a framework for RLC's future restoration efforts aimed at restoring this exceptionally rare and unique habitat in southern California. The report will also create a pathway for invaluable contributions to the preservation of unique Riparian/Riverine habitat within the MSHCP Plan area.

Based on the above mitigation contributions, HELIX concludes that the proposed 3.14 acres of off-site riparian enhancement and establishment and riparian-transition establishment within the Preserve, combined with the expanded Cienega Study, will provide superior preservation of resources compared to the 1.12 acres of permanent impacts that occurred within the project site in 2009.

2.4.2 Indirect Effects

As discussed in the 2007 Biological Report, Section 3.7 (Appendix A), the project implemented measures in 2009 to prevent unfiltered runoff and siltation to the west into tributaries of San Timoteo Creek.

3.0 CERTIFICATION/QUALIFICATIONS

I hereby certify that the statements furnished above and in the attached exhibits present the data and information required for this biological evaluation, and that the facts, statements, and information presented are true and correct to the best of my knowledge and belief.

Date: January 13, 2026 Signed: Jessica Lee

Jessica Lee
Biology Project Manager
HELIX Environmental Planning. Inc.

Date: January 13, 2026 Signed: Lauren Singleton

Lauren Singleton
Senior Biology Project Manager
HELIX Environmental Planning. Inc.

Date: January 13, 2026 Signed:

Amir Morales
Principal Regulatory Specialist
HELIX Environmental Planning. Inc.

4.0 REFERENCES

ECORP Consulting, Inc. 2007. HANS Application for the Calimesa 7th Street Project, APNs 411-210-024 and -006. Prepared for Urban Environs. August.

Riverside County Transportation and Land Management Agency. 2003. Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP). Final MSHCP—Volumes 1 and 2. Approved June 2023.

Tory R. Walker Engineering. 2021. Conceptual Design Report for La Cienega Wetland. Prepared for HELIX Environmental Planning, Inc. November.

Appendix A

2007 HANS Application

HANS Application

Calimesa 7th Street Project
APNs 411-210-024 and -006

August 2007

Prepared for:

Urban Environs
133 East Vine Street
Redlands, CA 92373
Attn: Pat Meyer

Prepared by:

ECORP Consulting, Inc.
ENVIRONMENTAL CONSULTANTS

215 North 5th Street
Redlands, California 92374
(909) 307-0046
(909) 307-0056 fax

ECORP Consulting, Inc.
ENVIRONMENTAL CONSULTANTS

August 16, 2007
(2006-081)

Environmental Programs Department – County of Riverside
Attn: Mary Stark
4080 Lemon Street, 12th Floor
Riverside,CA 92501

Attn: Business Resource Center Desk, US 5-113

RE: HANS Application (411-210-024 and -006)

Dear Ms. Stark:

ECORP Consulting, Inc. is pleased to submit this HANS application for the Calimesa 7th Street project in Riverside County (APNs 410-210-024 and -006).

Enclosed please find:

Section 1: HANS Application, wet-signed
Section 2: Aerial key map of site and corresponding site photos
Section 3: Biological report

If you have any questions about this application please contact Mr. Scott Taylor, in our Redlands office at:

ECORP Consulting, Inc.
215 North Fifth Street
Redlands, CA 92374

(909) 307-0046
(909) 307-0056 fax
staylor@ecorpconsulting.com

Sincerely,

ECORP CONSULTING, INC.

_____

Scott Taylor
Senior Biological Project Manager

Enclosures: 1 Original Application in 3-Ring Binder

COUNTY OF RIVERSIDE

TRANSPORTATION AND LAND MANAGEMENT AGENCY

Environmental Programs Department

Tony Carstens
Agency Director

Carolyn Syms Luna
Director

PROPERTY OWNER INITIATED MULTIPLE SPECIES HABITAT CONSERVATION PLAN (MSHCP) HABITAT ACQUISITION AND NEGOTIATION STRATEGY (HANS) APPLICATION

Revised: May 18, 2007

Check one as appropriate: Date: August 6, 2007

☒ HANS Review
☐ MSHCP Acquisition Review (Interested in selling land to Regional Conservation Authority)

INCOMPLETE APPLICATIONS WILL NOT BE ACCEPTED

SECTION 1
PROPERTY OWNER INFORMATION: PROPERTY OWNER(S)/OWNER'S REPRESENTATIVE

Assessor's Parcel Number(s) (APNs): 411-210-024 and 411-210-006

A. Property Owner Name(s)/Owner's Representative: Pat Meyer

Mailing Address: 133 East Vine Street
Street

Redlands CA 92373
City *State* *ZIP*

Daytime Phone No: (909) 798-4446 Fax No: (909) 335-9747

E-Mail: urbanenvirons@gte.net

Pat Meyer
PRINTED NAME OF PROPERTY OWNER(S)/OWNER'S REPRESENTATIVE

SIGNATURE OF PROPERTY OWNER(S)/OWNER'S REPRESENTATIVE

All signatures must be originals ("wet-signed"). Photocopies of signatures are **not** acceptable.

SECTION 2
BACKGROUND INFORMATION

Please provide the following information. If you need more room, submit a separate page.

A. Related Permit(s), Pre-application review (PAR) or Development Application Case Number(s) (if applicable): City of Calimesa plan check #02416/2145

B. Identify the MSHCP Criteria cell(s) in which the parcel is located (this information can be found on the Conservation Summary Report Generator available online at **http://www.rctlma.org/gis/rciprepgen.html**): 323 and 326

C. Were any previous biological surveys performed on the above reference APN's? ☒ YES ☐ NO
If yes, please provide a copy or reference the County Biological Report Number.
Report attached

D. Describe unique biological features (i.e. washes, streams, oak trees, juniper trees, and rock outcroppings):
Washes, oak trees

E. Explain how the parcel(s) relates to the conservation criteria described within the MSHCP. (See attached HANS Application Guide).
The parcel is north of and outside of proposed conservation areas.

SECTION 3
CHECKLIST

The following items/information must be supplied when the HANS application is submitted to the Environmental Programs Department (EPD), otherwise it will be deemed incomplete:

A. A series of current ground-level photographs showing the project site, together with a key map showing the location and direction from where the photographs were taken and the approximate area of view (may be included in biological documents).

B. Site Map which clearly shows the following information:
1. North Arrow.
2. Overall dimensions of the property and lot lines.
3. Location and names of adjoining streets.
4. Location and dimensions of existing and proposed buildings, structures, and driveways.
5. Location and dimensions of any easements, Environmental Constraint Sheet (ECS), or rights-of-way traversing the property.

C. If applicable, background information:
1. Lot line adjustments (proof of recordation), building permits, site preps, etc.
2. Topographical maps (optional).
3. Development plans (optional).

All documentation supplied must be in hard copy format. To further expedite the review process, it is recommended that the documentation also be submitted in digital format via CD-Rom. Acceptable digital formats for reports are Microsoft Word, Adobe Acrobat PDF, or rich text file. For import into the County GIS, please assign a coordinate system to any data provided. Technical GIS digital data submission specifications are included in Table 1 below.

TABLE 1

COUNTY OF RIVERSIDE GIS DEPARTMENT

Digital Data Submission Specifications

Data Formats	ESRI shape file, Microstation CAD file, or Autodesk Auto CAD file
Projection	State Plane
Zone	California VI
Datum	North American Datum 1983 (NAD83)
Units	U.S. Feet
Spheroid	"GRS_1980", 6378137.0,298.257222101
False Easting	6561666.666666666
False Northing	1640416.666666667
Central Meridian	116.25
Standard Parallel 1	32.78333333333333
Standard Parallel 2	33.88333333333333
Latitude of Origin	32.16666666666666

Should you have any questions about these specifications, please contact the GIS Department at (951) 955-6168.

SECTION 4
AUTHORITY FOR THIS APPLICATION IS HEREBY GIVEN:

I certify that I am/we are the owner(s) of record or authorized agent and that the information filed is true and correct to the best of my knowledge. An authorized agent must submit a letter from the owner(s) indicating authority to sign the application on the owner's behalf. As the owner of record/authorized agent, I hereby authorize the information to be released to Property Owner(s)/Owner's Representative/authorized agent. I further authorize, pursuant to Government Code Section 65105, that County personnel, or their agents, may enter upon the subject property and make examinations and surveys, provided that the entry, examination, and survey do not interfere with the use of the land.

If the property is determined to be needed for partial or full inclusion in the Western Riverside County Multiple Species Habitat Conservation Plan ("MSHCP"), and if the 120-day negotiation period provided by Section 6.1.1(B)(2) of the MSHCP commences, then the Property Owner/Applicant authorizes the Regional Conservation Authority (RCA) or its agents to enter the property for appraisal purposes.

All signatures must be originals ("wet-signed"). Photocopies of signatures are **not** acceptable.

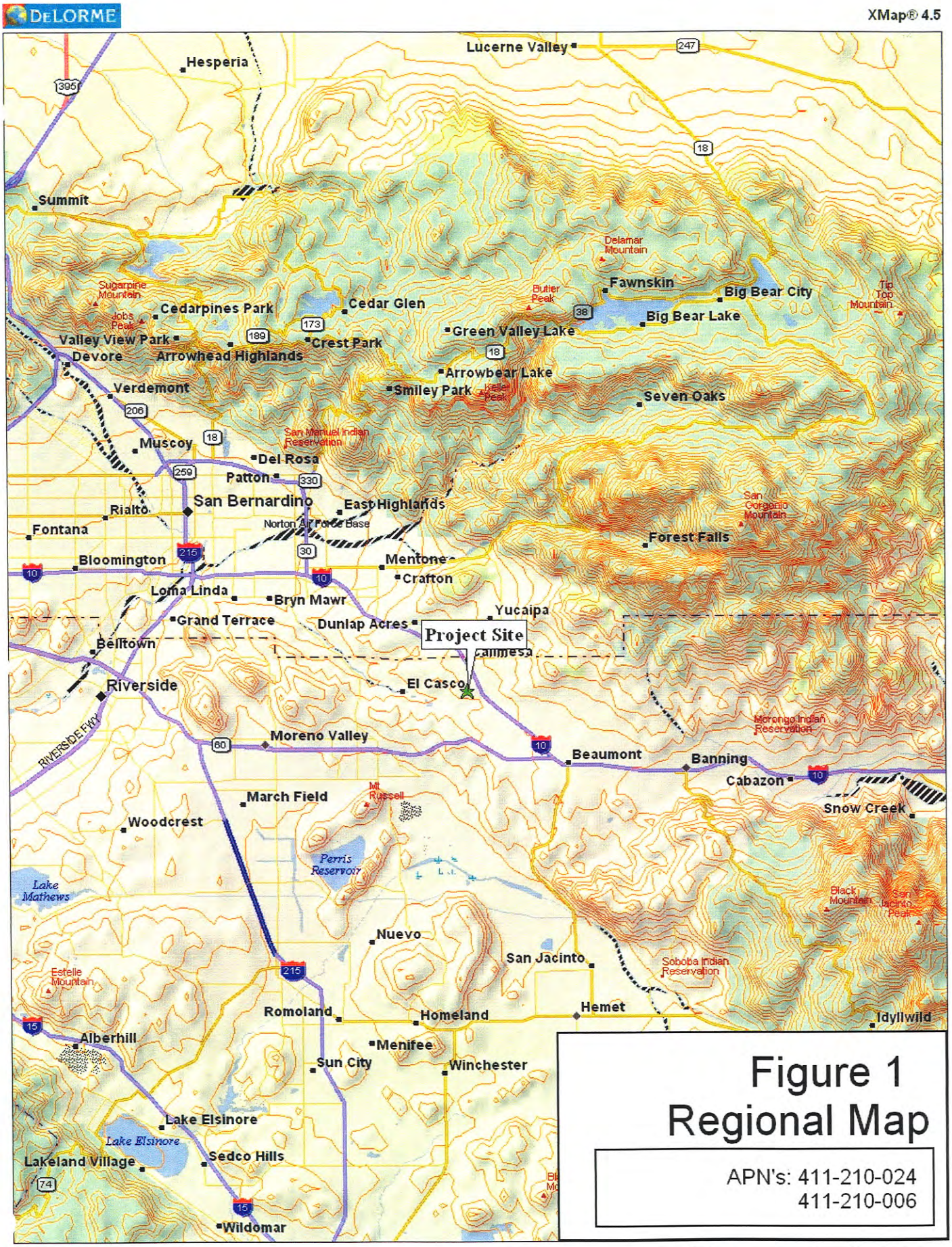
Henry Van Mouwerick	
PRINTED NAME OF PROPERTY OWNER(S)	*SIGNATURE OF PROPERTY OWNER(S)*
Pat Meyer	
PRINTED NAME OF PROPERTY OWNER REPRESENTATIVE	*SIGNATURE OF PROPERTY OWNER REPRESENTATIVE*

If the subject property is owned by persons who have not signed as owners above, attach a separate sheet that references the application case number and lists the printed names and signatures of all persons having an interest in the property.

**Please note: HANS cases are reviewed on a deposit-based method. Please refer to the appropriate fee schedule for deposit. Results of the HANS determination will be mailed to the Property Owner(s)/Owner's Representative.*

EPD USE ONLY

Complete Application: ☐Yes ☐No 45-day Review Period Ends:		Missing Items received	Date	Follow-up with checklist via: ☐Letter ☐E-mail ☐Phone Date:
Missing items:				
Notes/Comments entered into LMS:	Date			Incomplete application deemed complete on:


DeLORME
XMap® 4.5
Lucerne Valley
Hesperia
Summit
Delamar Mountain
Fawnskin
Big Bear City
Big Bear Lake
Butler Peak
Tip Top Mountain
Sugarpine Mountain
Jobs Peak
Cedarpines Park
Cedar Glen
Valley View Park
Devore
Arrowhead Highlands
Crest Park
Green Valley Lake
Arrowbear Lake
Smiley Park
Keller Peak
Seven Oaks
Verdemont
San Manuel Indian Reservation
Muscoy
Del Rosa
Patton
San Bernardino
East Highlands
Rialto
Fontana
Norton Air Force Base
San Gorgonio Mountain
Forest Falls
Bloomington
Mentone
Crafton
Loma Linda
Bryn Mawr
Grand Terrace
Dunlap Acres
Yucaipa
Project Site
Calimesa
Belltown
Riverside
El Casco
RIVERSIDE FWY
Moreno Valley
Morongo Indian Reservation
Beaumont
Banning
Cabazon
Snow Creek
March Field
Mt Russell
Woodcrest
Perris Reservoir
Lake Mathews
Black Mountain
San Jacinto Peak
Nuevo
San Jacinto
Soboba Indian Reservation
Estelle Mountain
Romoland
Homeland
Hemet
Idyllwild
Alberhill
Menifee
Sun City
Winchester
Lake Elsinore
Lake Elsinore
Lakeland Village
Sedco Hills
Wildomar
Figure 1
Regional Map
APN's: 411-210-024
411-210-006
Data use subject to license.
© 2004 DeLorme. XMap® 4.5.
www.delorme.com
MN (0.0° W)
mi
0 2 4 6 8 10
Data Zoom 9-0

Site Photos - Key Map

August 2007

Photo Point and Direction

0 100 200
Feet

N

ECORP Consulting, Inc.
ENVIRONMENTAL CONSULTANTS





Photo 1: Looking north along west drainage from the northwest corner.
(APN: 411-210-024 and 411-210-006)



Photo 2: Riversidean Sage Scrub in northern portion of site.
(APN: 411-210-024 and 411-210-006)



Photo 3: Looking east along I-10 from the northeast corner.
(APN: 411-210-024 and 411-210-006)



Photo 4: Looking southeast along 7th Street.
(APN: 411-210-024 and 411-210-006)



Photo 5: Looking east down southern canyon.
(APN: 411-210-024 and 411-210-006)



Photo 6: Looking northwest across site from the southeast corner.
(APN: 411-210-024 and 411-210-006)

Biological Report with Results from Nesting Season Burrowing Owl Surveys and a Rare Plant Survey for Rough Grading Plan on a 10-acre Parcel Located North of Sandalwood Drive on 7th Street in the City of Calimesa, Riverside, CA

(APNs 411-210-024 and 411-210-006)



Submitted to:

Urban Environs
Attn: Patrick J. Meyer
133 East Vine Street
Redlands, CA 92373

Submitted by:

ECORP Consulting, Inc.
ENVIRONMENTAL CONSULTANTS

215 N. Fifth Street
Redlands, CA 92374

July 2007

Biological Report for Rough Grading Plan on a 10-acre Parcel Located North of Sandalwood Drive on 7th Street in the City of Calimesa, Riverside, CA

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Appendix A – Potentially Occurring Special-Status Species

1.0 INTRODUCTION

On behalf of Urban Environs, ECORP Consulting, Inc. (ECORP) conducted biological survey work for an approximately 10 acres (APNs 411-210-024 and -006) near the city of Calimesa, Riverside County, California. The property is located within the study area for the Western Riverside Multiple Species Habitat Conservation Plan (MSHCP) and is located within a Criteria Cell for conservation, within the Pass Area Plan. Because the property is located within a Criteria Cell, the project proponent will need to complete the Habitat Acquisition and Negotiation Strategy (HANS) process with the County of Riverside. This report has been prepared in support of the HANS application for the property.

Within the MSHCP, the property is subject to the Database Update/Additional Survey Requirements portion of the MSHCP (Section 6.3.2 and Errata) and is located within special survey areas for the burrowing owl (*Athene cunicularia*) and for two rare plant species: Yucaipa onion (*Allium marvinii*) and many-stemmed dudleya (*Dudleya multicaulus*). Surveys for these species were completed in 2006, as updated by a site visit in 2007. Every biological assessment of lands within the MSHCP must also comply with requirements to assess the potential for riparian/riverine areas, vernal pool habitats and fairy shrimp (Section 6.1.2). In addition, properties being submitted for HANS applications must comply with the Urban/Wildlands Interface Policies.

The following report describes the existing site conditions, survey methodologies, survey results and other information necessary for the project to enter into the Joint Project Review (JPR) by the Regional Conservation Authority (RCA).

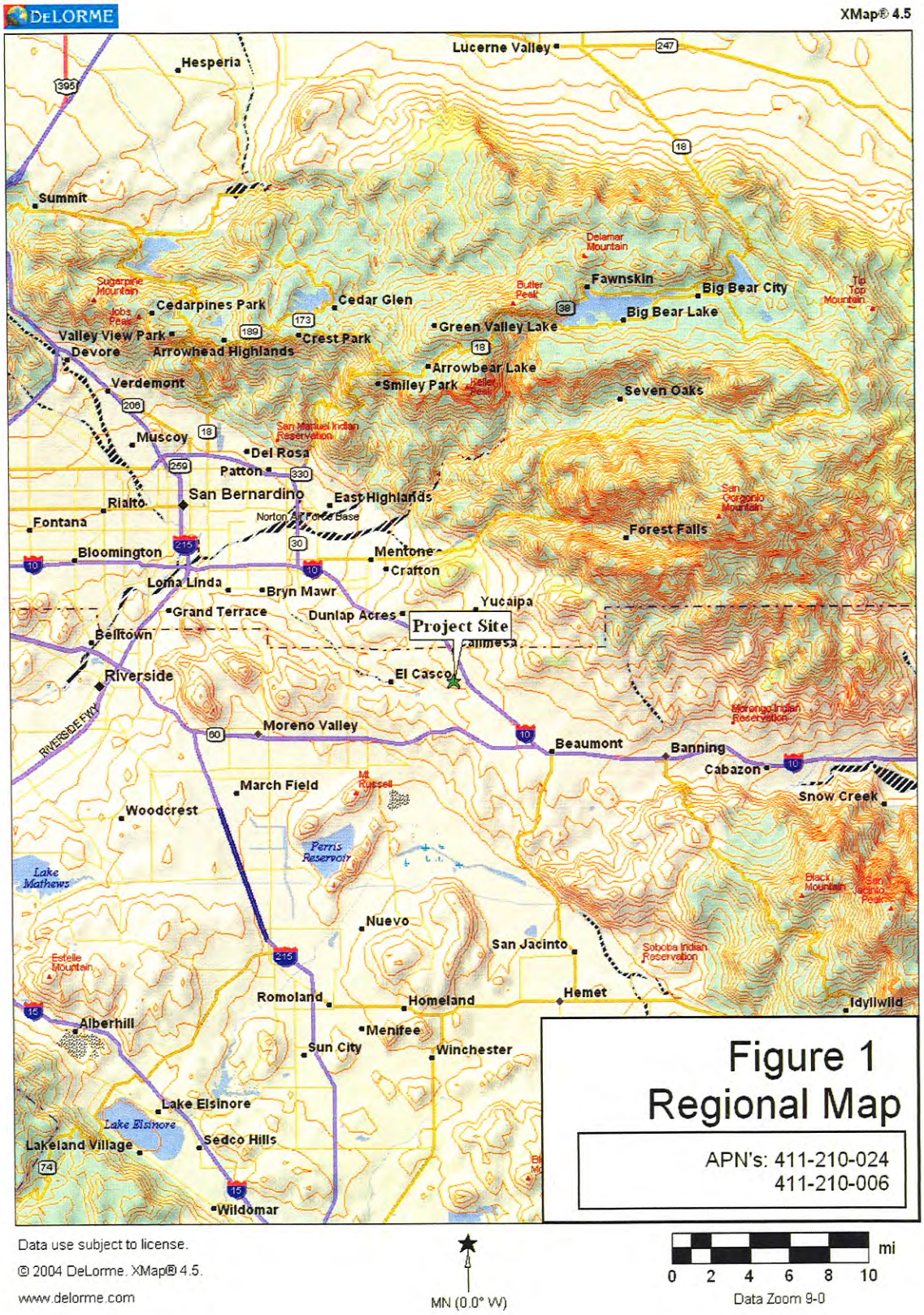
1.1 Project Location

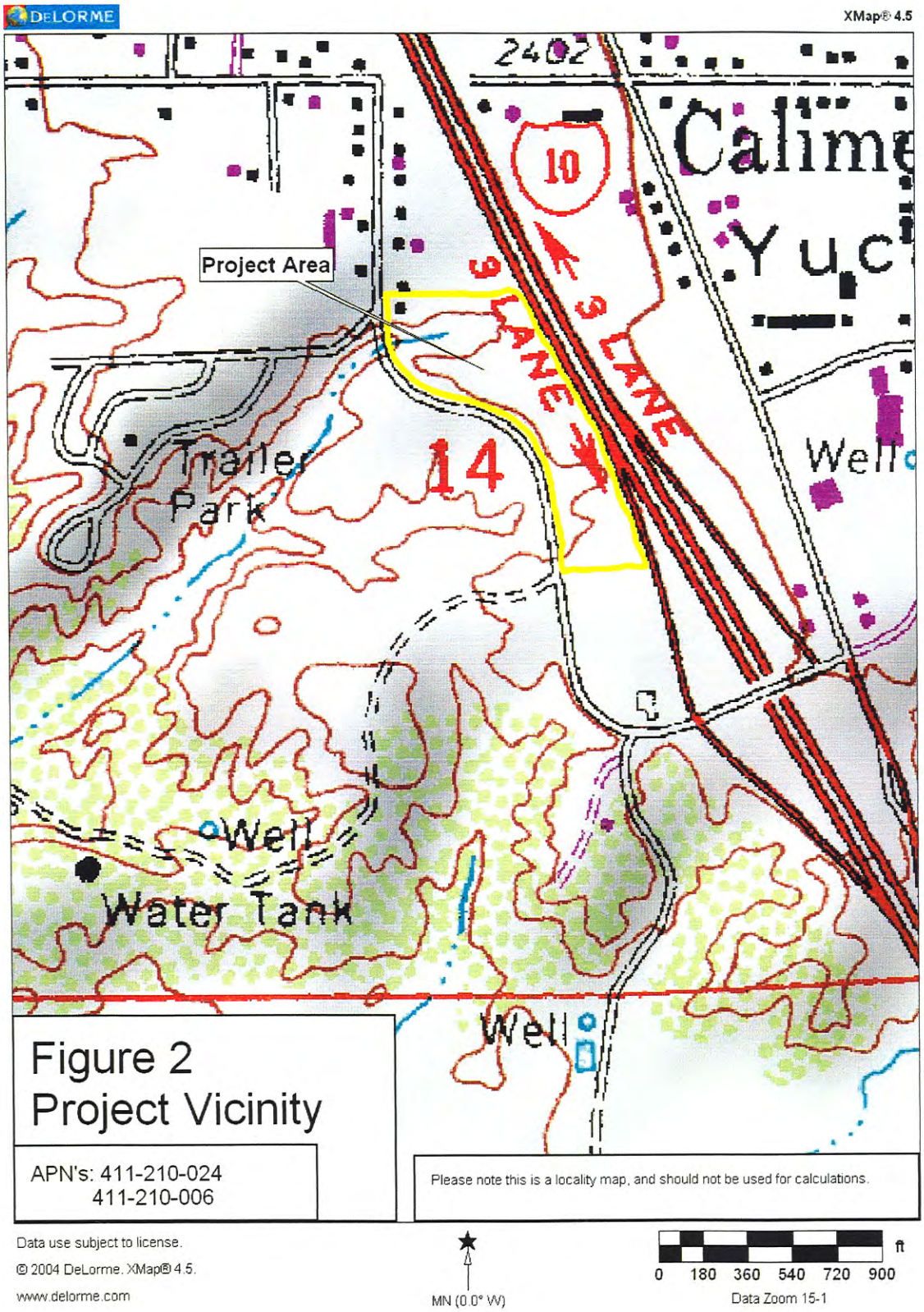
The project site is located on 10 acres along the east side of 7th Street, west of Interstate 10, north of Sandalwood Drive, and south of Villa Calimesa Lane in the City of Calimesa, Riverside County, California (Figure 1). As shown on the U.S. Geological Survey Yucaipa, California 7.5' topographic quadrangle (1979), the project area is

situated in the southeast corner of Section 14, Township 2 South, Range 2 West (Figure 2). The approximate center of the site is located at 33° 59.68' N, 117° 3.65' W (NAD83) within the within the Santa Ana Watershed (#18070203, U.S. Department of Interior, Geological Survey 1978). The elevation on site is approximately 713 to 722 meters (2,340 – 2,368 feet) above mean sea level (amsl).

1.2 Project Description

The proposed project consists of a Rough Grading Plan for the entire 10-acre site. No development project is planned for this site at this time, though the parcel is zoned for commercial development in the future. Approximately 15,680 cubic yards of soil would be moved as part of the grading operations. The proposed grading plan would not require the export or import of soil; the existing soils would be balanced on site.


DeLORME
XMap® 4.5
Hesperia
Lucerne Valley
Summit
Delamar Mountain
Fawnskin
Big Bear City
Big Bear Lake
Sugarpine Mountain
Cedarpines Park
Cedar Glen
Butler Peak
Tip Top Mountain
Valley View Park
Devore
Arrowhead Highlands
Crest Park
Green Valley Lake
Arrowbear Lake
Smiley Park
Seven Oaks
Verdemont
Muscoy
San Manuel Indian Reservation
Del Rosa
Patton
San Bernardino
East Highlands
Rialto
Fontana
Norton Air Force Base
San Gorgonio Mountain
Forest Falls
Bloomington
Mentone
Crafton
Loma Linda
Bryn Mawr
Grand Terrace
Dunlap Acres
Yucaipa
Project Site
Redlands
Belltown
Riverside
El Casco
Moreno Indian Reservation
RIVERSIDE FWY
Moreno Valley
Beaumont
Banning
Cabazon
Snow Creek
March Field
Mt. Russell
Woodcrest
Perris Reservoir
Lake Mathews
Black Mountain
San Jacinto Peak
Nuevo
San Jacinto
Soboba Indian Reservation
Estelle Mountain
Romoland
Homeland
Hemet
Idyllwild
Alberhill
Menifee
Sun City
Winchester
Lake Elsinore
Lakeland Village
Sedco Hills
Wildomar
Figure 1
Regional Map
APN's: 411-210-024
411-210-006
Data use subject to license.
© 2004 DeLorme. XMap® 4.5.
www.delorme.com
MN (0.0° W)
mi
0 2 4 6 8 10
Data Zoom 9-0


DeLORME
XMap® 4.5
2402
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Yuc
Project Area
3 LANE
3 LANE
14
Trailer
Park
Well
Well
Water Tank
Well
Figure 2
Project Vicinity
APN's: 411-210-024
411-210-006
Please note this is a locality map, and should not be used for calculations.
Data use subject to license.
© 2004 DeLorme. XMap® 4.5.
www.delorme.com
MN (0.0° W)
0 180 360 540 720 900 ft
Data Zoom 15-1

2.0 METHODS

2.1 Literature Search

Prior to conducting the field portion of the assessment, a literature search was performed. A search of the California Department of Fish and Game's (CDFG) *California Natural Diversity Data Base* (CNDDB) was conducted to determine the special-status species that had been documented in the Yucaipa and El Casco 7.5' minute topographic quadrangles. Additional data regarding the potential occurrence of special-status species were gathered from the following sources:

- *State and federally listed endangered and threatened animals of California* (CDFG Oct. 2006),
- *Special animals list* (CDFG February 2007),
- *Inventory of rare and endangered vascular plants of California* (CNPS 2005),
- *The Jepson Manual* (Hickman 1993), and
- Various online websites (e.g., CalFlora 2006; California Native Plant Society Electronic Inventory 2006).

Using this information, localities were generated in particular for the two plant species that require survey work and burrowing owl, but also for other potentially-occurring species.

Plant and wildlife species nomenclature is derived from a variety of sources, such as: *Western Amphibians and Reptiles* (Stebbins 2003), *A Manual of California Vegetation (Sawyer and Keeler-Wolf 1995)*, *The Jepson manual* (Hickman 1993), *Preliminary Descriptions of the Terrestrial Natural Communities of California* (Holland 1986), and *The Sibley Guide to Birds* (Sibley 2000).

Soil types were determined using the *Soil Survey of San Bernardino County, Southwestern Part, California* (USDA 1979) and the online Natural Resource Conservation Service's Web Soil Survey.

2.2 Field Surveys

ECORP biologists Scott Taylor conducted the rare plant survey and general site assessment on May 23, 2006 and Scott Taylor, Tony Mann, and Danica Schaffer-Smith conducted burrowing owl surveys of the site between August 10 and 30, 2006. A follow-up survey was conducted in June 2007 by Scott Taylor to confirm that the site's resources and conditions had not changed in 2007. Information collected during the field surveys included:

- Recording all plant and animal species observed on the project site and in immediately adjacent areas;
- Characterizing plant communities present on the project site;
- Searching for animal sign (detections of burrows, scat, tracks, vocalizations, etc.);
- Taking photographs at the project site; and
- Recording weather data during surveys, including time, temperature, cloud cover, and wind speed at the start and end of the surveys (Table 1).

Table 1. Weather Conditions During Surveys

Date	Time		Temperature (°F)		Cloud Cover (%)		Wind Speed (m.p.h)	
	start	end	min	max	min	max	min	max
5/23/06	1330	1600	76	76	0	0	2	5
8/10/06	0630	0800	72	77	0	0	0	2
8/24/06	0530	0830	74	80	0	0	0	2
8/29/06	1835	1920	88	89	40	40	0	3
8/30/06	1820	1930	85	85	20	20	0	2
6/25/07	1000	1130	78	78	0	0	0	2

The rare plant survey consisted of walking the entire site carefully to search for the Yucaipa onion and many-stemmed dudleya. The areas considered to have the highest potential during the survey were native habitats within the non-disced portions of the property, so these areas received more attention.

The burrowing owl survey was conducted during the nesting season in accordance with the 2003 Burrowing Owl Consortium Guidelines and the 1995 CDFG Staff Report on Burrowing Owl Mitigation (CDFG 1995) guidelines. Parallel transects at 30 meter (100 feet) intervals were walked throughout potential habitat areas on and within 150 meters (500 feet) of the boundaries of the site. All burrows were inspected for presence of owls and owl sign (feathers, whitewash, and pellets). In the event that burrows and owl locations were detected, they would have been mapped utilizing a handheld Geographic Positioning System (GPS).

3.0 RESULTS

The results section summarizes the results of the literature search and field surveys, including site characteristics, plant communities, wildlife, special-status species, and special-status habitats (including any potential wildlife corridors).

3.1 Site Characteristics

The approximately 10-acre site is currently vacant. There is one stream and two drainages present on the site, with several oak trees along the drainages. The project site has been almost entirely disked and it has been plowed in the past. Adjacent parcels have been developed, with commercial use structures to the east, Interstate 10 to the north, and 7th street bordering the southern side of the property. The parcel south of the property features hills and canyons with non-native grassland habitats. Site photos are included as Figure 3.

3.2 Soils

The project site consists of soils known as Ramona very fine sandy loam (ReC2) and San Timoteo loam (SmF2) (Figure 4). Approximately 95 percent of the site consists of the Ramona very fine sandy loam soil type, while the remaining portion is the San Timoteo soil. The Ramona soils are composed of granite derived alluvial material, typical of alluvial fans or terraces. These soils are well-drained, with a high water capacity, and a low frequency of flooding. The upper portion of this soil type is very fine sandy loam about 14 inches thick. San Timoteo consists of weathered material from sandstone. On the project site, this soil is present on 25 to 50 percent slopes. This soil has a low available water capacity, but it is well drained with no frequency of flooding. Typically this soil has approximately 22 inches of loam in its upper layers, which is met by a lower layer of weathered bedrock about 6 inches deep. Elevations range between 1,700 to 3,100 feet (USDA, 1979).



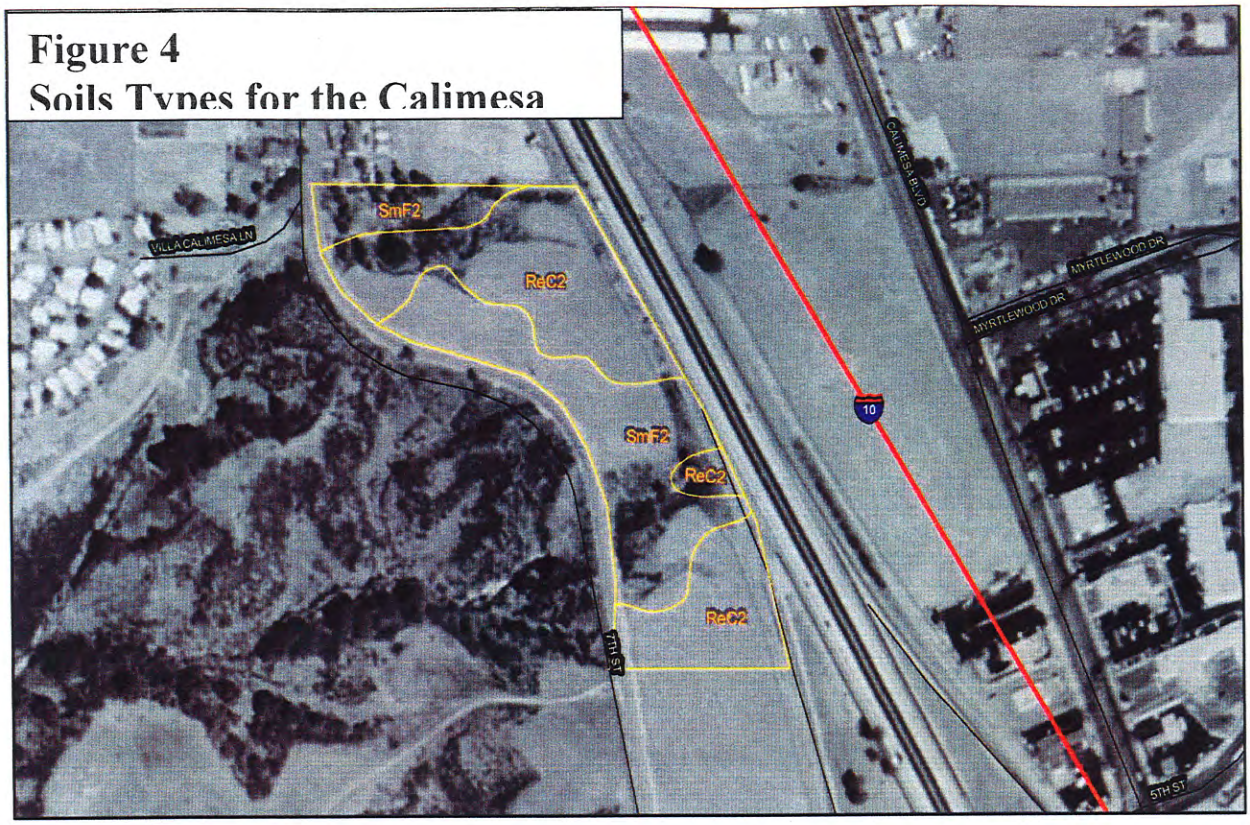
Riversidean Sage Scrub in the southwest corner.
(APN: 411-210-024 and 411-210-006)



Non-native grassland as seen from the southeast corner.
(APN: 411-210-024 and 411-210-006)

Figure 3
Site Photos

Figure 4
Soils Types for the Calimesa



Meters: 0 40 80 160

Feet: 0 100 200 400 600 800

USDA Natural Resources Conservation Service

Web Soil Survey 1.1
National Cooperative Soil Survey

10/18/2006
Page 1 of 3

Soil Survey of Western Riverside Area, California

Map Unit Legend Summary

Western Riverside Area, California

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
ReC2	Ramona very fine sandy loam, 0 to 8 percent slopes, ero ded	5.8	54.2
SmF2	San Timoteo loam, 25 to 50 percent slopes, eroded	4.9	45.8

3.3 Vegetation Communities and Plants

The primary plant communities in the project area are non-native grasslands, which receive periodic disking, and remnant agriculture. Outside of the remnant agriculture and grassland areas, scattered areas of Riversidean sage scrub including California buckwheat (*Eriogonum fasciculatum*) and California sagebrush (*Artemisia californica*) occur on slopes of the two larger drainage canyons. A single live oak tree (*Quercus agrifolia*) in the southwesternmost drainage course. In the central portuion of the property, a small copse of ornamental trees occurs, comprised of eucalyptus trees (*Eucalyptus* sp.) and pepper trees (*Schinus molle*).

Non-native grasslands are composed primarily of non-native species: bromes *(Bromus* spp.), short-pod mustard (*Hirschfeldia incana),* and filaree (*Erodium* spp.) occur over the majority of the site.

Riversidean sage scrub on site is comprised of California buckwheat primarily, but also contains a few toyon (*Heteromoles arbutifolia*) and basketbush (*Rhus trilobata*). The herbaceous understory is fairly well developed in this community, consisting primarily of herbs and forbs. Some of the understory plants include scarlet bugler (*Penstemon centranthifolius*), telegraph weed (*Heterotheca grandiflora*), tarweed (*Deinandra fasciculata*), wild brome (*Bromus* sp.) and wild oats (*Avena* sp.)

3.4 Waters and Wetlands

Surface water was not present on the site at the time of the surveys but the site does support one known stream and two other drainages. A formal wetland delineation was conducted by Gonzales Environmental Consulting, Inc. (GEC) and a report documenting the results was prepared by GEC (October 2005). No wetlands were found to exist on the site. One Stream (Stream A) was found at the west end of the site. Two drainage swells (Drainage 1 and 2), are located south of the channel. Drainage 2 is located in the extreme southern portion of the project area. Though there is standing water and cattails on the south end of the property, these features alone do not constitute the presence of a wetland; there are specific soil requirements that need to be met. The

soils present on the site and in the drainages are not considered wetland soils. The stream and drainage locations are shown on Figure 5 and described further below. The proposed grading plan has the potential to affect all of the jurisdictional areas.

3.4.1 State Jurisdictional Areas

California Department of Fish and Game, and California Regional Water Quality Control Board (Porter-Cologne) regulate impacts to bed, bank, channel, vegetation and waters of the state. The proposed project would impact 0.51 acres of Drainage 1, 0.13 acres of Drainage 2, and 0.48 acres of the stream (Gonzales 2005).

3.4.2 Federal Jurisdictional Areas

ACOE regulates discharge of fill into "waters of the US" including wetlands and non-wetland waters that meet specific criteria. ACOE jurisdictional areas include the three drainages that bisect the property. The proposed project would impact 0.22 acres of Drainage 1, 0.02 acres of Drainage 2, and 0.07 acres of the stream. The California Regional Water Quality Control Board has delegated authority from U.S. EPA to issue certifications for Section 401 of the Clean Water Act. The Section 401 impacts are the same as the federal jurisdictional areas.

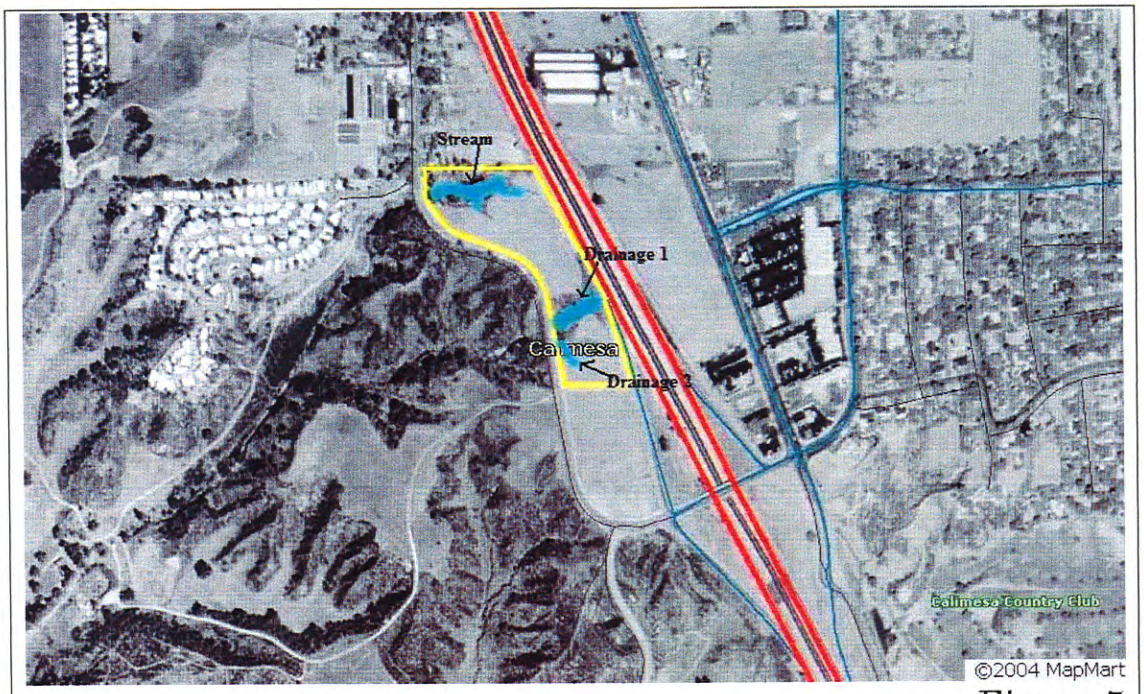


Figure 5
Calimesa Project
Drainages

Yellow=Project area
Turquoise=Drainages

Scale: m 100 200 300
yds 100 200 300

Source: USGS aerial photo dated June 1, 2002
Please note that this is a locality map, and should not be used for calculations

3.5 Wildlife

Wildlife species observed or detected on the project site were characteristic of desert habitats and disturbed/ruderal communities in the region. There were no sensitive species detected during the survey. Wildlife species that were detected within the project area included barn owl (*Tyto alba*), American crow (*Corvus brachyrhynchos*), house finch (*Carpodacus mexicanus*), European starling (*Sturnus vulgaris*), American kestrel (*Falco sparverius*), wrentit (*Chamaea fasciata*), acorn woodpecker (*Melanerpes formicivorus*), desert cottontail (*Sylvilagus auduboni*), California ground squirrel (*Spermophilus beecheyi*), and side-blotched lizard (*Uta stanisburiana*).

In addition to direct species observations, there was evidence of other species present on the project site. There were many burrows on the property, which are probably used by small mammals. Mouse (*Peromyscus* sp.) and kangaroo rat (*Dipodomys* sp.) scat were both observed, with the kangaroo rat scat found near burrows in the undisked areas around the two drainages. There was also coyote (*Canis latrans*) scat present on the site.

3.6 Special-Status Species

The CNDDB and CNPSEI did not contain any documented occurrences of special-status species on the project site (CNDDB 2006; CNPSEI 2006). Based on the search of these databases and the habitats present on the site, 29 special-status species (6 plant species and 23 wildlife species) have been documented within the Yucaipa and El Casco quadrangles. Each of these species was assessed for their potential to occur on site in Appendix A.

According to the MSHCP (Section 6.1.2), properties that support vernal pool habitat or riparian/riverine habitat must be assessed on a property by property basis for the potential to support three sensitive species of fairy shrimp and three sensitive riparian bird species, respectively. Vernal pool habitat does not occur on the property and so there is no potential for the property to support the fairy shrimp species, which include Riverside fairy shrimp (*Streptocephaleus wootonii*), vernal pool fairy shrimp (*Branchinecta lynchi*), and Santa Rosa Plateau fairy shrimp (*Linderiella santarosae*).

There are no areas that qualify under the definition of MSHCP riparian/riverine areas on the property. The definition states that riparian/riverine areas are those that "contain habitat dominated by trees, shrubs, persistent emergents, or emergent mosses and lichens, which occur close to or which depend upon soil moisture from a nearby fresh water source; or areas with fresh water flow during all or a portion of the year." The property has no potential to support the aforementioned riparian bird species, which include least Bell's vireo (*Vireo bellii pusillus*), southwestern willow flycatcher (*Empidonax traillii extimus*), and western yellow-billed cuckoo (*Coccyzus americanus occidentalis*).

Removal of the Oak tree on the property would require an Oak Tree Removal Permit from the City of Calimesa.

3.6.1 Required Special-Status Species Surveys

The primary guidance as to effects on candidate, sensitive, or special status species is the MSHCP, which permits take of 146 plant and animal species so long as there is compliance with the plan. The MSHCP specifies survey requirements for the property as discussed below.

According to the MSHCP (Volume 1, Sections 6.1 and 6.3), the property is within two special survey areas: Narrow Endemic Plant Species Survey Area (NEPSSA) 8 and the Burrowing Owl Survey Area. A rare plant survey is required within NEPSSA 8 for two plant species: Yucaipa onion (*Allium marvinii*) and many-stemmed dudleya (*Dudleya multicaulus*). A burrowing owl survey is only required for properties within the survey area that also support potential owl habitat.

Surveys were completed for the two plant species and neither species were found on the property. The site conditions and habitats onsite are also not considered to be ideal for these two species. Yucaipa onion tends to occur in openings in thick chaparral and is largely found at higher elevations than the project site. Many-stemmed dudleya generally requires clay soil types, which are absent from the property.

Yucaipa onion (*Allium marviniii*) is a CNPS List 1B.1 perennial bulbiferous herb historically found in chaparral (with clay openings) at elevations ranging from 760 to 1065 meters (2,493 – 3,494 feet) above mean sea level (amsl). This species is unlikely to occur on site because no chaparral habitat exists and focused CNPS (2001) protocol surveys (during the blooming period) did not detect this species on the project site.

Many-stemmed dudleya (*Dudleya multicaulis*) is a CNPS List 1B.2 perennial herb historically found in chaparral, coastal scrub, and valley and foothill grasslands (often clay) at elevations ranging from 15 to 790 meters (49 – 2,592 feet) amsl. This species is unlikely to occur on site because although the drainages on the property contain coastal scrub habitat and is within the plant's elevation range, this plant would have

likely been observed, if present, during focused CNPS (2001) protocol surveys (during the blooming period).

The property supports potential habitat for the burrowing owl and is within the Burrowing Owl Survey Area, therefore surveys for the owl were completed for the property; no burrowing owls were found.

The burrowing owl (*Athene cunicularia*) is a California Species of Concern (CSC) species. Burrowing owls historically occurred throughout much of California; however, many former populations have vanished. The burrowing owl is a yearlong resident in California that inhabits open habitats, primarily grasslands and deserts. Some over-wintering burrowing owls also occur in California, but do not stay and breed during the spring and summer seasons like their resident counterparts. Burrowing owls require a burrow for roosting and nesting cover. Although they usually nest in abandoned ground squirrel burrows, they will also use other small mammal burrows, pipes, culverts, and nest boxes, particularly where burrows are scarce (Zeiner, et al. 1990).

During the surveys for the burrowing owl, kangaroo rat (*Dipodomys* sp.) sign was observed on the property. This sign could be attributable to the Stephens' kangaroo rat (*Dipodomys stephensi*), a species which is a state and federal listed species. This species is authorized for take under the MSHCP, due to adoption of a Habitat Conservation Plan (HCP) for the species in 1991. Since the property is outside of the HCP fee area, and because of the provisions of the MSHCP regarding this species, no action is required on the property with regard to the Stephens' kangaroo rat.

3.6.2 Raptors and Migratory Birds

All raptor species are protected from "take" pursuant to California Fish and Game Code Section 3503.5. Raptors and migratory birds are protected by the Migratory Bird Treaty Act (MBTA 1918). Nesting habitats for raptors is present on site in the oak trees, as well as in openings to the steep drainage slopes. One adult barn owl was observed foraging on the site, and could potentially be roosting there as well.

3.7 MSHCP Preserve

The property is located within Criteria Cells 323 and 326 (Figure 6). These cells focus conservation in the southern half primarily, associated with a side tributary to San Timoteo Canyon.

The MSHCP planned wildlife corridor through the region, in a side tributary to San Timoteo Canyon, is known as Proposed Constrained Linkage 23 in the MSHCP. This linkage is planned to provide connectivity between Bogart Park and San Timoteo Creek for several wildlife species such as Bell's sage sparrow (*Amphispiza belli belli*), Los Angeles pocket mouse (*Perognathus longimembris brevinasus*), bobcat (*Lynx rufus*), and San Bernardino mountain kingsnake (*Lampropeltus zonata parvarubra*). Assemblage of this corridor is planned by conserving 5-15 percent of Cell 323 and 5 percent of Cell 326, configured in such a way that the preserved areas are joined in functionality. The area identified for preservation is approximately one half mile south of the subject property.

The project site is bordered on the east by Interstate 10 and commercial development, on the west by 7th Street, on the north by commercial/residential developments, and on the south by commercial developments. Across 7th Street to the west there is a complex of canyons that lead to San Timoteo Canyon, and the site is connected with this area via culverts within two of the drainages. The continuity of the drainage features under 7th Street does not constitute a substantial wildlife corridor. Although the drainages on the property would be eliminated with rough grading, this action would not interfere substantially with movement of any resident or migratory fish or wildlife species.

The requirements for Urban/Wildlands Interface for the management of edge factors would apply to this property. Primarily, these measures would entail prevention of unfiltered runoff and siltation to the west into tributaries of San Timoteo Canyon. No development is planned at this time, and so factors such as such as lighting, exotic species invasion, toxics, and domestic predators would not apply at this stage of the project.

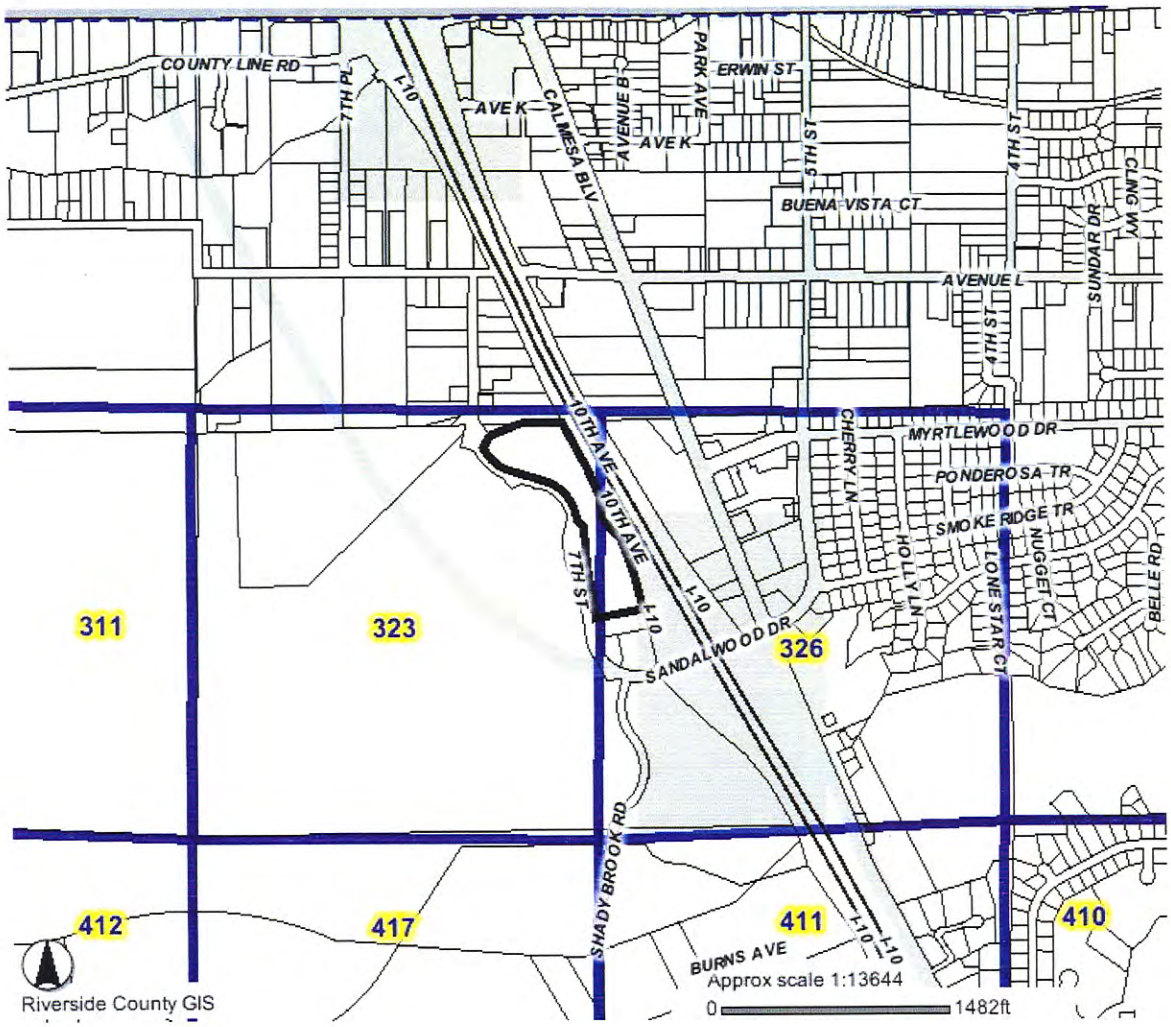


Figure 6
MSHCP Criteria Cells

4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 Conclusions

Surveys were completed for the two plant species requiring focused surveys, Yucaipa onion and many-stemmed dudleya, and neither species were found on the property. The property supports potential habitat for the burrowing owl and is within the Burrowing Owl Survey Area, therefore surveys for the owl were completed for the property; no burrowing owls were found.

There are three drainages on the property that are jurisdictional to federal and state agencies that will be impacted by the grading. The completion of the grading project will also impact the coastal sage scrub and coast live oak woodland, both considered to be sensitive natural communities. Actions that impact the drainages and the oak trees require appropriate permits, as described below.

Non-vegetated streambeds would be impacted by the proposed project, and would represent a significant impact requiring permitting with the appropriate agencies. One stream and two drainages are located within the project site and are under federal and state jurisdiction. The proposed rough grading plan has the potential to affect all of the jurisdictional areas.

Since the property is within criteria cells, a Habitat Evaluation and Acquisition Negotiation Strategy (HANS) application is being processed through the County of Riverside's Environmental Programs Department. The HANS process would determine compliance of the proposed project with the MSHCP. Due to the target conservation within the criteria cells containing the property, and because the NEPSSA target species for the property are absent, it is anticipated that the HANS process would determine that the proposed action would be consistent with the goals of the MSHCP.

4.2 Recommendations

Nesting migratory birds and burrowing owls are protected by the federal Migratory Bird Treaty Act. Seasonal avoidance of the bird nesting season (March 1 to August 31) is recommended in order to avoid take of nesting birds and burrowing owls. A pre-clearance bird survey by a qualified biologist is recommended if activities are to begin during the bird nesting season (March 1 to August 31). This survey should be conducted within 30 days prior to rough grading of the property. If burrowing owls or other nesting birds are found, appropriate mitigation measures must be conducted in accordance with the MSHCP and MBTA requirements.

The City of Calimesa municipal code contains tree preservation regulations, along with specific regulations regarding removal of oak trees. The property has at least one eucalyptus tree and several oak trees. The Applicant would be required to obtain an Oak Tree Removal Permit. For impacts to coastal sage scrub, no mitigation would be required other than compliance with the MSHCP through the aforementioned survey work and the HANS process.

A U.S. Army Corps of Engineers permit (404), California Department of Fish and Game Streambed Alteration Agreement (1600), and California Regional Water Quality Control Board Water Quality Certification (401/402) will be required prior to beginning work in the drainage areas. Final authority over the area rests with the appropriate agencies.

To meet requirements of the Urban/Wildlife Interface Policies of the MSHCP, the project would need to acquire a Storm Water Pollution and Prevention Plan and National Pollutant Discharge Elimination System permit prior to rough grading. At the time any development is planned on the property in the future, there will be further measures to meet, including meeting with MSHCP specifications regarding: drainage, toxic material controls, lighting within open space, noise control, control of invasive plants and fencing/barrier design.

5.0 CERTIFICATION

I hereby certify that the statements furnished above and in the attached exhibits present the data and information required for this biological evaluation, and that the facts, statements, and information presented are true and correct to the best of my knowledge and belief. Field work conducted for this assessment was performed by me or under my direct supervision. I certify that I have not signed a non-disclosure or consultant confidentiality agreement with the project applicant or applicant's representative and that I have no financial interest in the project.

DATE: 07/30/07

SIGNED: _____

Mr. Scott Taylor

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[USDA] U.S. Department of Agriculture. 1979. Washington (DC): United States Department of Agriculture, Soil Conservation Service.

[USGS] U.S. Geological Survey. 7.5' topographic quadrangles. Yucaipa and El Casco.

Appendix A

Potentially Occurring Special-Status Species

APPENDIX A
Potentially Occurring Special-Status Species on the Calimesa Property

PLANTS			
Scientific Name Common Name	**Status**	**Flowering Period**	**Potential of Occurrence**
Allium marvinii Yucaipa onion	Fed: None CA: None CNPS: 1B.1 WRMSHCP: Yes	Apr-May	Unlikely; the property is slightly below the plant's elevation range (760-1065 meters). Also, this plant would have likely been observed, if present, during spring 2006 plant surveys.
Calochortus plummerae Plummer's mariposa lily	Fed: None CA: None CNPS: 1B.2 WRMSHCP: Yes	May-Jul	Unlikely; the property contains suitable habitat for this species [valley and foothill grasslands (granitic or rocky)] and is within the plant's elevation range (100-1700 meters). There are five known occurrences within five miles of the project site. However, this plant would have likely been observed, if present, during spring 2006 plant surveys.
Chorizanthe parryi* var. *parryi Parry's spineflower	Fed: None CA: None CNPS: 3.2 WRMSHCP: Yes	Apr-Jun	Unlikely; the property contains suitable habitat for this species (coastal scrub with sandy or rocky openings) and is within the plant's known range (40-1705 meters). There is one known occurrence within five miles of the project site. However, this plant would have likely been observed, if present, during spring 2006 plant surveys.
Dudley multicaulis many-stemmed dudleya	Fed: None CA: None CNPS: 1B.2 WRMSHCP: Yes	Apr-Jul	Unlikely; the property contains suitable habitat for this species [coastal scrub; valley and foothill grassland (often clay)] and is within the plant's elevation range (15-790 meters). Also, this plant would have likely been observed, if present, during spring 2006 plant surveys.
Monardella macrantha* ssp. *hallii Hall's monardella	Fed: None CA: None CNPS: 1B.3 WRMSHCP: Yes	Jun-Aug	Unlikely; the property contains suitable habitat for this species (valley and foothill grassland), but it is slightly below the plant's elevation range (730-2195 meters). The closest known occurrence is approximately eight miles north of the project site.
Symphyotrichum defoliatum San Bernardino aster	Fed: None CA: None CNPS: 1B.2 WRMSHCP: No	Jul-Nov	Unlikely; the property does not contain suitable habitat for this species [vernally mesic, valley and foothill grasslands (near ditches, streams, or springs)], but it is within the plant's elevation range (2-2040 meters). There is one known occurrence within five miles of the project site.

WILDLIFE		
Scientific Name Common Name	**Status**	**Habitat**
AMPHIBIANS		
Spea hammondii western spadefoot	Fed: None CA: CSC WRMSHCP: Yes	Low; there is marginal habitat (grasslands and sandy soils with nearby low hills), but no sightings occur within five miles of the site.
REPTILES		
Aspidoscelis hyperythra orange-throated whiptail	Fed: None CA: CSC WRMSHCP: No	Low; there is marginal habitat (grassland, riparian scrub, woodlands) on the site, but no occurrences are documented within five miles of the property.
Aspidoscelis tigris stejnegeri Coastal western whiptail	Fed: None CA: None WRMSHCP: No	Moderate; there are friable desert soils on the site, and there are nearby documented sightings, but the species was not observed during surveys.
Phrynosoma coronatum* ssp. *blainvillei (San Diego) coast horned lizard	Fed: None CA: CSC WRMSHCP: Yes	Moderate; there is marginal habitat for the species (sandy soils) and documented sightings occur within five miles of the property.
BIRDS		
Accipiter cooperi Cooper's hawk	Fed: MBTA CA: CSC, FP WRMSHCP: Yes	Moderate; marginal oak woodland is present on the site.
Agelaius tricolor tricolored blackbird	Fed: None CA: CSC WRMSHCP: Yes	Low; None of the preferred marsh, playa, or vernal pool, or moist grassland habitat is present on site. Sightings have been documented within five miles of the site, but species was not observed during the survey.
Aimophila ruficeps canescens southern California rufous-crowned sparrow	Fed: None CA: CSC WRMSHCP: Yes	Low; although sightings have been documented within five miles of the site, there is only poor secondary habitat (grassland and chaparral) present. Not observed during surveys.
Aquila chrysaetos golden eagle	Fed: MBTA CA: CSC, FP WRMSHCP: Yes	Moderate; there is marginal grassland and oak woodland habitat present on the site. This species is known to occur within five miles of the project site.
Athene cunicularia burrowing owl	Fed: None CA: CSC WRMSHCP: Yes	Low; There are no known sightings within five miles of the site, but there is suitable open grassland, habitat and small mammal burrows on site. Species was not observed during the focused protocol surveys.
Circus cyaneus Northern harrier	Fed: MBTA CA: CSC, FP WRMSHCP: Yes	Moderate; suitable habitat for this species occurs on the project site (grassland, agricultural fields, and coastal sage scrub). This species is known to occur within five miles of the project site.

Elanus leucurus white-tailed kite	Fed: MBTA CA: FP WRMSHCP: Yes	Moderate; there are open grassland areas suitable for foraging, as well as small mammals present on the site. Marginal oak woodland breeding habitat is also present.
Empidonax traillii extimus southwestern willow flycatcher	Fed: **END** CA: **END** WRMSHCP: Yes	Low; there is marginal woodland habitat on the property. Species was not observed during surveys.
Eremophila alpestris actia California horned lark	Fed: None CA: CSC WRMSHCP: Yes	Low; there is marginal grassland present on the site, but no moist areas. Sightings have been documented within five miles of the property.
Lanius ludovicianus loggerhead shrike	Fed: BCC CA: CSC WRMSHCP: Yes	Moderate; suitable habitat is present on the project site (inhabits large, open areas conducive to hunting-nests in dense brush and shrubs).
Plegadis chihi white-faced ibis	Fed: None CA: CSC WRMSHCP: Yes	Low; there are no pool areas and only marginal secondary habitat (grassland and woodland) habitat present on site. No known sightings occur within five miles of the site, and the species was not observed during surveys.
Vireo bellii pusillus least Bell's vireo	Fed: **END** CA: **END** WRMSHCP: Yes	Low; no suitable lowland riparian willow or scrub habitat is present on site, but the species has been documented within five miles of the property.
MAMMALS		
Chaetodipus fallax fallax northwestern San Diego pocket mouse	Fed: None CA: CSC WRMSHCP: Yes	Moderate; marginal grassland is present on the site. This species has been found within five miles of the project site.
Dipodomys merriami parvus San Bernardino kangaroo rat	Fed: **END** CA: None WRMSHCP: Yes	Low; there is marginal grassland habitat on the property. This species has not been documented within five miles of the site.
Dipodomys stephensii Stephens' kangaroo rat	Fed: **END** CA: **THR** WRMSHCP: Yes	High; there are soft soils with sparse grasses present on the site, and there are documented sightings within five miles of the property. Kangaroo rat skat and burrows were identified on the site during the surveys.
Lasiurus xanthinus Western yellow bat	Fed: None CA: None WRMSHCP: No	Low; the site lacks preferred roosting trees and permanent water, required for foraging. Sightings have been documented within five miles of the property.
Lepus californicus bennettii San Diego black-tailed jackrabbit	Fed: None CA: CSC WRMSHCP: Yes	Low; there is marginal grassland and scrub habitat on the property. There is one documented sighting within five miles of the site.

Onychomys torridus ramona southern grasshopper mouse	Fed: None CA: CSC WRMSHCP: No	Moderate; there is suitable open area with grasses, and sandy soils on the site. Sightings have been documented within five miles of the site.
Perognathus longimembris brevinasus Los Angeles pocket mouse	Fed: None CA: CSC WRMSHCP: Yes	Low; marginal grassland and scrub habitat is present on the site. There are no sightings known within five miles of the site.

Potential for Occurrence Criteria:

Present: Species was observed on site during a site visit or focused survey.

High: Habitat (including soils and elevation factors) for the species occurs on site and a known occurrence has been recorded within 5 miles of the site.

Moderate: Either habitat (including soils and elevation factors) for the species occurs on site and a known occurrence occurs within the database search, but not within 5 miles of the site; or a known occurrence occurs within 5 miles of the site and marginal or limited amounts of habitat occurs on site.

Low: Limited habitat for the species occurs on site and a known occurrence occurs within the database search, but not within 5 miles of the site, or suitable habitat strongly associated with the species occurs on site, but no records were found within the database search.

Unlikely: Species was found within the database search, but habitat (including soils and elevation factors) do not exist on site or the known geographic range of the species does not include the survey area.

California Native Plant Society (CNPS) designations: (Note: According to CNPS [Skinner and Pavlik 1994], plants on Lists 1B and 2 meet definitions for listing as threatened or endangered under Section 1901, Chapter 10 of the California Fish and Game Code).

1A: Plants presumed extinct in California
1B: Plants rare and endangered in California and throughout their range.
2: Plants rare, threatened or endangered in California but more commons elsewhere in their range.
3: Plants about which we need more information; a review list.
4: Plants of limited distribution; a watch list.

List 1B, 2, and 4 extension meanings:
.1 Seriously endangered in California (over 80% of occurrences threatened / high degree and immediacy of threat)
.2 Fairly endangered in California (20-80% occurrences threatened)
.3 Not very endangered in California (<20% of occurrences threatened or no current threats known)

Federal Designations
(Federal Endangered Species Act, USFWS)
END: federal-listed, endangered
THR: federal-listed, threatened
MTBA: listed under the Migratory Bird Treaty Act
BCC: Birds of Conservation Concern

State designations:
(California Endangered Species Act, CDFG)
END: state-listed, endangered
THR: state-listed, threatened
FP: fully protected
CSC: California Special Concern

Western Riverside Multiple Species Habitat Conservation Plan (WRMSHCP) designations: (Note: This plan was adopted on June 17, 2003).
Yes: Covered species on the WRMSHCP
No: Not a covered species on the WRMSHCP

Source: California Natural Diversity Data Base (2006), California Native Plant Society Electronic Inventory (2006) Yucaipa and El Casco 7.5 minute quads.



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Appendix B

Site Photographs



Photo 1 : Looking east along Stream from the northwest corner. Photo taken in August 2007. Photo credit: ECORP Consulting, Inc.



Photo 2: Looking northeast down Drainage 1. Photo taken in August 2007. Photo credit: ECORP Consulting, Inc.

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Appendix B

Plant Species Observed

Family	Scientific Name	Common Name
EUDICOTS		
Anacardiaceae	*Schinus molle**	Peruvian pepper tree
Asteraceae	*Amsinckia intermedia*	Rancher's fiddleneck
	Baccharis salicifolia	mule fat
	*Centaurea melitensis**	tocalote
	Encelia farinosa	brittlebush
	Erigeron canadensis	horseweed
	Helianthus annus	common sunflower
	Heterotheca grandiflora	telegraph weed
	*Lactuca serriola**	prickly lettuce
	Malacothrix saxatilis	cliff aster
	Sonchus asper	prickly sow thistle
	Stephanomeria sp.	wire lettuce
Brassicaceae	*Hirschfeldia incana**	short-pod mustard
	*Raphanus sativus**	wild radish
Chenopodiaceae	*Salsola tragus**	Russian thistle
Convolvulaceae	*Convolvulus arvensis**	field bindweed
Euphorbiaceae	*Croton setigerus*	dove weed
	Euphorbia polycarpa	smallseed sandmat
Fabaceae	*Lupinus bicolor*	miniature lupine
	*Medicago polymorpha**	burclover
Geraniaceae	*Erodium brachycarpum**	short-beak filaree
	*Erodium cicutarium**	redstem filaree
Malvaceae	*Malva parviflora**	cheeseweed
Myrtaceae	*Melaleuca citrina**	bottlebrush
Polygonaceae	*Polygonum aviculare**	prostrate knotweed
Salicaceae	*Salix gooddingii*	Goodding's black willow
Sapindaceae	*Koelreuteria bipinnata**	goldenrain tree
Solanaceae	*Datura wrightii*	jimson weed
	*Nicotiana glauca**	tree tobacco
Tamaricaceae	*Tamarix ramosissima**	tamarisk
MONOCOTS		
Arecaceae	*Washingtonia filifera**	California fan palm
Poaceae	*Avena barbata**	slender oat
	*Avena fatua**	wild oats
	*Bromus diandrus**	common ripgut grass
	*Bromus rubens**	red brome
	*Cynodon dactylon**	Bermuda grass
	*Hordeum vulgare**	common barley
	*Phleum pratense**	common timothy

* Non-native species

Appendix C

Animal Species Observed or Detected

Order	Family	Scientific Name	Common Name
VERTEBRATES			
Birds			
Accipitriformes	Accipitridae	*Buteo jamaicensis*	red-tailed hawk
	Cathartidae	*Cathartes aura*	turkey vulture
Apodiformes	Trochilidae	*Calypte anna*	Anna's hummingbird
Columbiformes	Columbidae	*Columba livia*	rock pigeon
		Zenaida macroura	mourning dove
Falconidae	Falconidae	*Falco sparverius*	American kestrel
Passeriformes	Aegithalidae	*Psaltriparus minimus*	bushtit
	Corvidae	*Corvus brachyrhynchos*	American crow
		Corvus corax	common raven
	Fringillidae	*Haemorhous mexicanus*	house finch
		Spinus psaltria	lesser goldfinch
		Spinus tristis	American goldfinch
	Hirundinidae	*Hirundo rustica*	barn swallow
	Icteridae	*Sturnella neglecta*	western meadowlark
	Passerellidae	*Melospiza melodia*	song sparrow
		Melozone crissalis	California towhee
		Pipilo maculatus	spotted towhee
		Zonotrichia leucophrys	white-crowned sparrow
	Passeridae	*Passer domesticus*	house sparrow
	Parulidae	*Setophaga coronata*	yellow-rumped warbler
	Sturnidae	*Sturnus vulgaris*	European starling
	Troglodytidae	*Thryomanes bewickii*	Bewick's wren
	Turdidae	*Sialia mexicana*	western bluebird
	Tyrannidae	*Sayornis nigricans*	black phoebe
		Tyrannus vociferans	Cassin's kingbird
Piciformes	Picidae	*Melanerpes formicivorus*	acorn woodpecker

Appendix D

Site Photographs



Photograph 1: View of project site along the eastern boundary, facing south. The wild oats and annual brome grassland on the project site had been recently abated. Photograph was taken on May 12, 2021.



Photograph 2: View of a storm drain inlet that was installed in 2009 along the western project site boundary, facing east. The pepper tree grove can be seen in the background. Photograph was taken on May 12, 2021.

See Figure 5 for photograph locations.

Source: HELIX 2024

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Photograph 3: View of the storm drain inlet along the western project site boundary, facing west. Photograph taken on May 12, 2021.



Photograph 4: View of an off-site culvert along the eastern project site boundary, facing east. Photograph taken on May 12, 2021.

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See Figure 5 for photog

X 2024



Photograph 5: View of the wild oats and annual brome grassland that dominates the project site, facing south. Photograph taken on April 22, 2022.



Photograph 6: View of a vertical storm drain that was installed in 2009 in the northern portion of the project site, facing northeast. Photograph taken on April 22, 2022.

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See Figure 5 for photog

X 2024



Photograph 7: View of a storm drain inlet that was installed in 2009 in the northwestern corner of the project site, facing north. Photograph taken on April 22, 2022.



Photograph 8: View disturbed habitat on the right and existing developed areas on the left (i.e., 7th Street) mapped within the northern portion of the project site, facing north. Photograph taken on April 22, 2022.

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See Figure 5 for photog

X 2024



Photograph 9: View of the wild oats and annual brome grassland within the southern portion of the project site, facing south. Photograph taken on June 21, 2024.



Photograph 10: View of the wild oats and annual brome grassland within the northern portion of the project site, facing southeast. Photograph taken on June 21, 2024.

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See Figure 5 for photog

X 2024

Appendix E

2024 Burrowing Owl Focused Survey Report

HELIX Environmental Planning, Inc.
16485 Laguna Canyon Road, Suite 150
Irvine, CA 92618
949.573.9450 **tel.**
619.462.0552 **fax**
www.**helixepi**.com

October 4, 2024 03491.00009.001

Mr. Jack Kofdarali
Sandalwood Travel Center, LP
P.O. Box 1958
Corona, CA 92878

Subject: 2024 Burrowing Owl (*Athene cunicularia*) Survey Report for the Sandalwood Commercial Development Project and Finance Map

Dear Mr. Kofdarali:

This letter report presents the results of the 2024 focused burrowing owl (*Athene cunicularia;* BUOW) survey conducted by HELIX Environmental Planning, Inc. (HELIX) for the Sandalwood Commercial Development Project and Finance Map (project) located in the City of Calimesa, Riverside County (County), California. The survey was conducted in accordance with the County's BUOW Survey Instructions for the Western Riverside Multiple Species Habitat Conservation Plan (MSHCP).[1] This survey was conducted to meet applicable conditions under the MSHCP, which was approved in 2003.[2] The MSHCP is a comprehensive planning effort that includes multiple cities throughout Riverside County, including the City of Calimesa. As part of the MSHCP implementation, enrolled jurisdictions are required to impose terms of the MSHCP, including appropriate surveys in accordance with Volume 1, Section 6. The project is located within the MSHCP BUOW Survey Area; therefore, surveys are required if suitable habitat is present. This letter report describes the methods used to perform the survey and the survey results.

PROJECT SITE LOCATION

The project site is generally located west of Interstate (I-) 10 and north of Sandalwood Drive (Figure 1, Regional Location). The project site is within Section 14 of Township 2 South, Range 2 West on the U.S. Geological Survey (USGS) 7.5' El Casco quadrangle (Figure 2, USGS Topography). The project site is bordered by 7th Street to the west and I-10 to the east (Figure 3, Aerial Photograph). It is located approximately 400 feet to the north of the intersection of 7th Street and Sandalwood Drive. The

[1] Western Riverside County Regional Conservation Authority. 2006. Burrowing owl survey instructions for the Western Riverside Multiple Species Habitat Conservation Plan Area. Environmental Programs Department. Retrieved from: https://www.wrc-rca.org/species/survey_protocols/burrowing_owl_survey_instructions.pdf. Accessed August 21, 2024.

[2] Riverside, County of. 2003. Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP) Final MSHCP Volume I. Prepared by Dudek & Associates. Available from: https://rctlma.org/western-riverside-county-multiple-species-habitat-conservation-plan-mshcp-1. Accessed August 21, 2024.

approximate 11.2-acre project site consists of a 9.3-acre on-site area, which includes Assessor's Parcel Numbers 411-210-006 and -024, plus an additional 1.9-acre off-site right-of-way.

PROJECT SITE DESCRIPTION

The project site has been used for agriculture since at least 1938.[3] The project site was graded in 2009 and is currently dominated by wild oats and annual brome grasslands, which appear to be maintained regularly. The topography within the project site is mostly flat, with elevations ranging from approximately 2,380 feet (725 meters) above mean sea level (AMSL) near the northwestern portion of the project site to approximately 2,400 feet (725 meters) above AMSL near the southwestern corner. Immediate surrounding land uses mostly consist of undeveloped land to the west and commercial, industrial, and residential developments to the north, south, and east (Figure 3).

Representative photographs of the project site are depicted in Attachment A, *Representative Site Photos*.

METHODS

HELIX biologist Cache Tucker conducted a Step I Habitat Assessment on June 24, 2024. Mr. Tucker and HELIX biologist Nelly Moreno conducted the Step II Locating Burrows and BUOW, including Part A: Focused Burrow Surveys and Part B: Focused BUOW Survey, between June 24 and August 7, 2024, in accordance with the County's survey protocol. The Step I survey and first Step II survey were conducted on the same day. The specific survey information is provided in Table 1, *Survey Information*. The Step I and Step II surveys are described in detail below.

Table 1
SURVEY INFORMATION

Site Visit	Survey Date	Biologists	Start/Stop Time	Start/Stop Weather Conditions	Survey Results
HA[1]/1	06/24/24	Cache Tucker	0550-0740	68°F, wind 2-4 mph, 0% clouds 73°F, wind 2-4 mph, 0% clouds	Suitable habitat and burrows detected; no BUOW detected.
2	07/12/24	Cache Tucker	0600-0750	68°F, wind 0-2 mph, 80% clouds 78°F, wind 1-4 mph, 80% clouds	No BUOW detected.
3	07/24/24	Cache Tucker	0550-0750	72°F, wind 02 mph, 5% clouds 75°F, wind 0-5 mph, 5% clouds	No BUOW detected.
4	08/07/24	Nelly Moreno	0600-0750	72°F, wind 1-5 mph, 60% clouds 77°F, wind 1-5 mph, 50% clouds	No BUOW detected.

[1] Step I Habitat Assessment

Step I – Habitat Assessment

The project site is located within an MSHCP BUOW survey area; therefore, a Step I Habitat Assessment was conducted on June 24, 2024 to determine whether the project site supports suitable BUOW habitat. The assessment was conducted within the project site and a 150-meter (approximately 500-foot) buffer

[3] Historic Aerials. 2024. Aerial Imagery of the Sandalwood Commercial Development Project and Finance Map, 33.996017°, -117.061309°. Aerial Imagery from 1938. Available at: https://www.historicaerials.com/viewer. Accessed August 21, 2024.

zone around the periphery of the project site (collectively, the survey area). The survey area was slowly walked and assessed for suitable BUOW habitat, including:

- disturbed low-growing vegetation within grassland and shrublands (less than 30 percent canopy cover);
- gently rolling or level terrain;
- areas with abundant small mammal burrows, especially California ground squirrel burrows (*Otospermophilus beecheyi*);
- fence posts, rocks, or other low perching locations; and
- artificially created structures, such as earthen berms, debris piles, and cement culverts.

Inaccessible areas of the buffer zone were visually assessed using binoculars.

Step II – Locating Burrows and Burrowing Owls

Because suitable habitat was observed during the habitat assessment, Step II surveys were conducted within the survey area. Step II surveys, which consist of a focused burrow survey (Part A) and four focused BUOW surveys (Part B), were conducted to determine whether the survey area supports suitable burrows and/or BUOW. The focused burrow survey was conducted concurrently with the first BUOW survey.

All potential burrows were checked for signs of recent owl occupation. Signs of occupation include:

- pellets/casting (regurgitated fur, bones, and/or insect parts);
- white wash (excrement); and/or
- feathers.

Since suitable burrows were observed within the survey area, three additional BUOW surveys were conducted. The biologist walked transects spaced no greater than 30 meters apart (approximately 100 feet) to allow for 100 percent visual coverage of all suitable habitat within the survey area. The biologist walked slowly and methodically, closely checking suitable habitat within the survey area for suitable burrows, BUOW diagnostic sign (e.g., molted feathers, pellets/castings, or whitewash at or near a burrow entrance), and individual BUOW. Inaccessible areas of the survey area were visually assessed using binoculars. All suitable burrows, burrow surrogates, BUOW sign, and/or BUOW observations were recorded using a handheld Global Positioning System unit (Figure 4, *Suitable Burrow and Transect Locations*).

RESULTS

Suitable BUOW habitat was observed within the project site during the habitat assessment, including disturbed habitat and non-native grassland (Attachment A, *Representative Site Photos*). One potential burrow surrogate consisting of a vertical storm drain riser was observed approximately 200 feet

southeast of the 7th Street and Villa Calimesa intersection. An earthen burrowing was observed in the southeastern portion of the project site. No other burrows or burrow surrogates were observed. No BUOW or sign of BUOW occupation were observed during the four focused surveys. Therefore, BUOW does not currently occupy the project site. Observed burrow and burrow surrogate locations and transects walked are shown in Figure 4.

CONCLUSION

No BUOWs were observed or detected within the survey area during the focused surveys. One burrow surrogate and one earthen burrow were observed within the survey area, but no sign of BUOW occupation was observed. A pre-construction survey is required 30 days prior to ground disturbance pursuant to the County's survey protocol.

If you have any questions regarding the information presented in this letter report, please contact us at Nelly.Moreno@helixepi.com or CacheT@helixepi.com, or Lauren Singleton at LaurenS@helixepi.com.

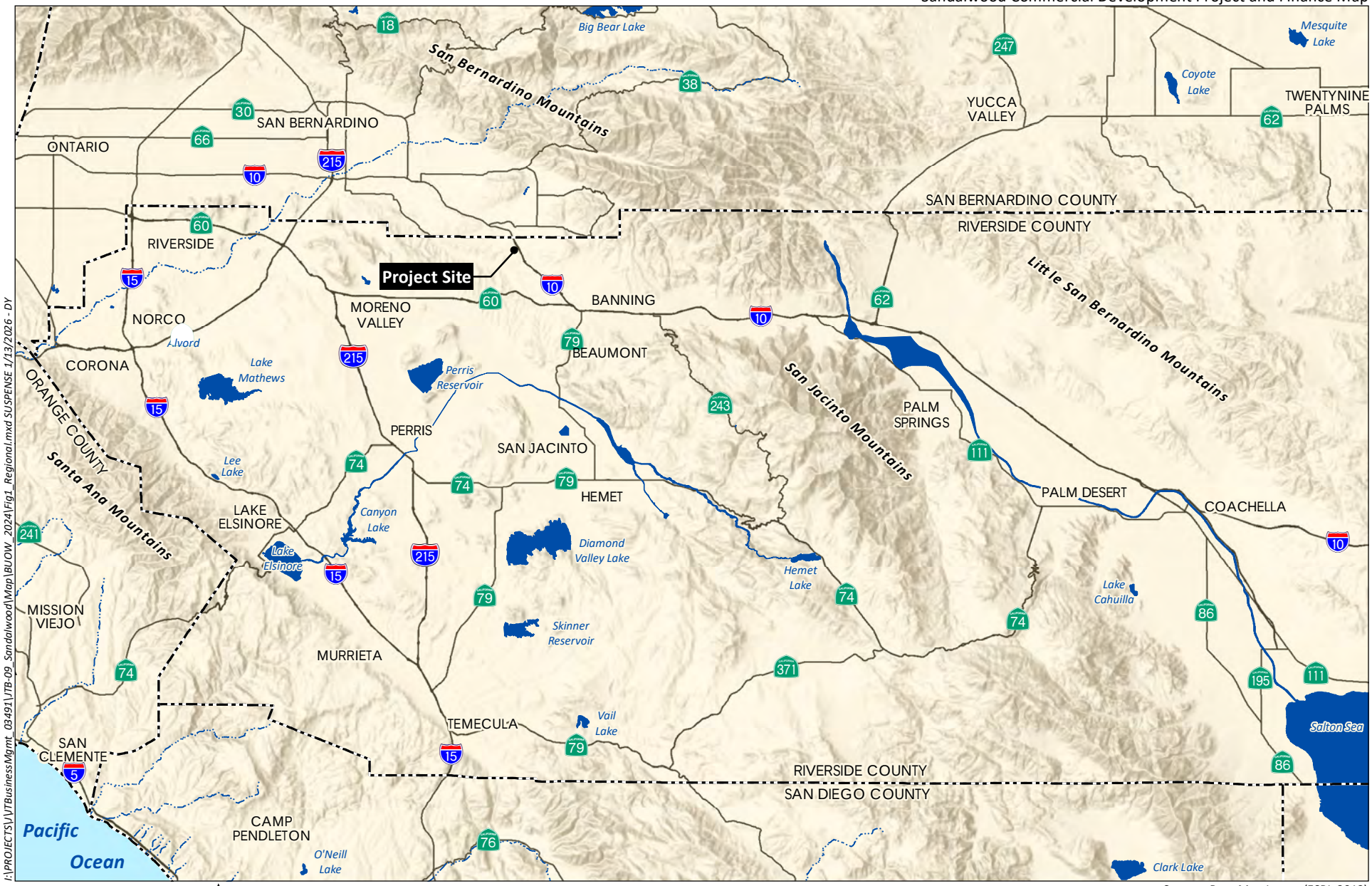
Sincerely,

Nelly Moreno
Biologist

Cache Tucker
Biologist

Attachments:

Figure 1: Regional Location
Figure 2: USGS Topography
Figure 3: Aerial Photograph
Figure 4: Suitable Burrow and Transect Locations
Attachment A: Representative Site Photos



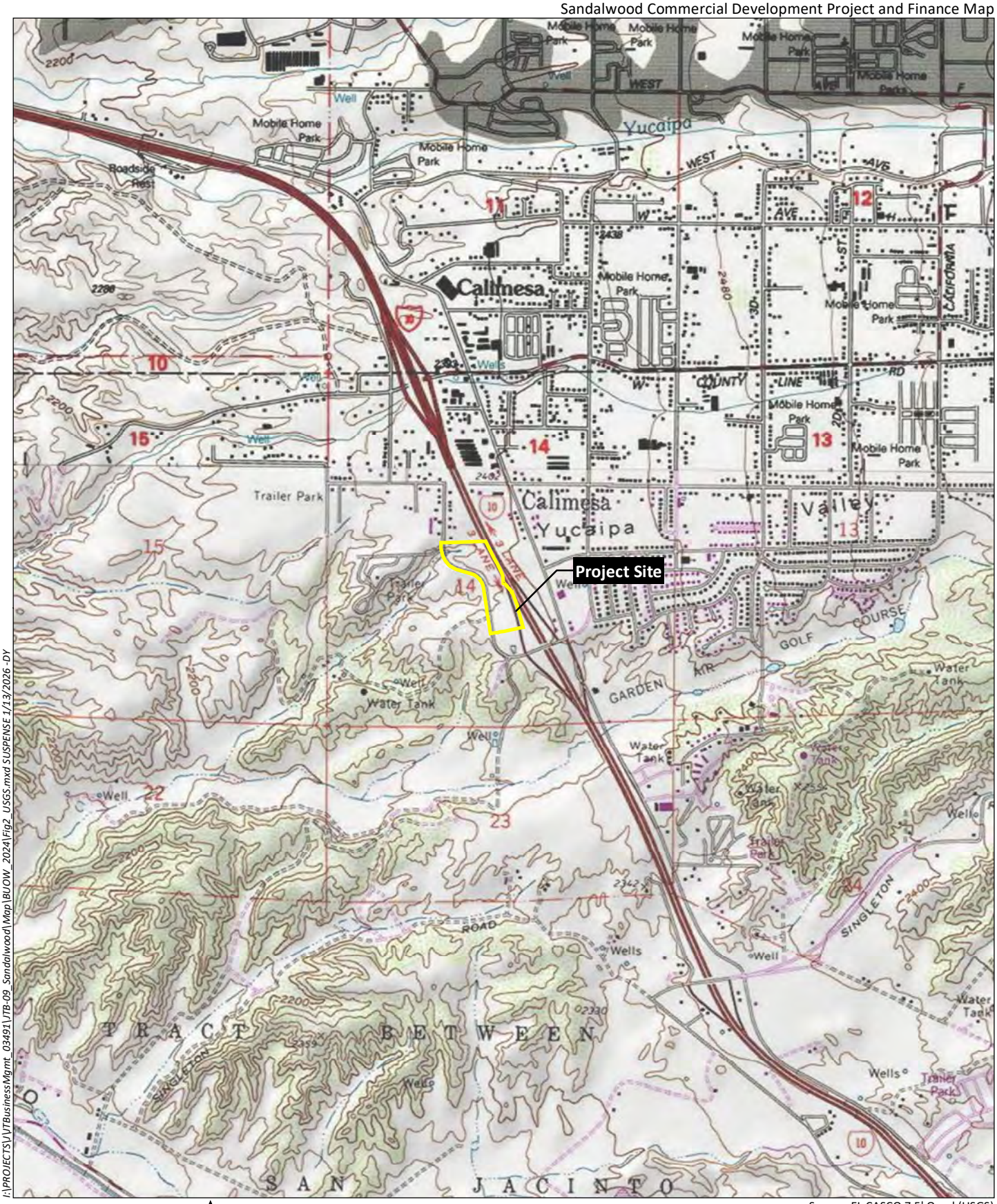
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Source: Base Map Layers (ESRI, 2013)

HELIX Environmental Planning

Regional Location

Figure 1

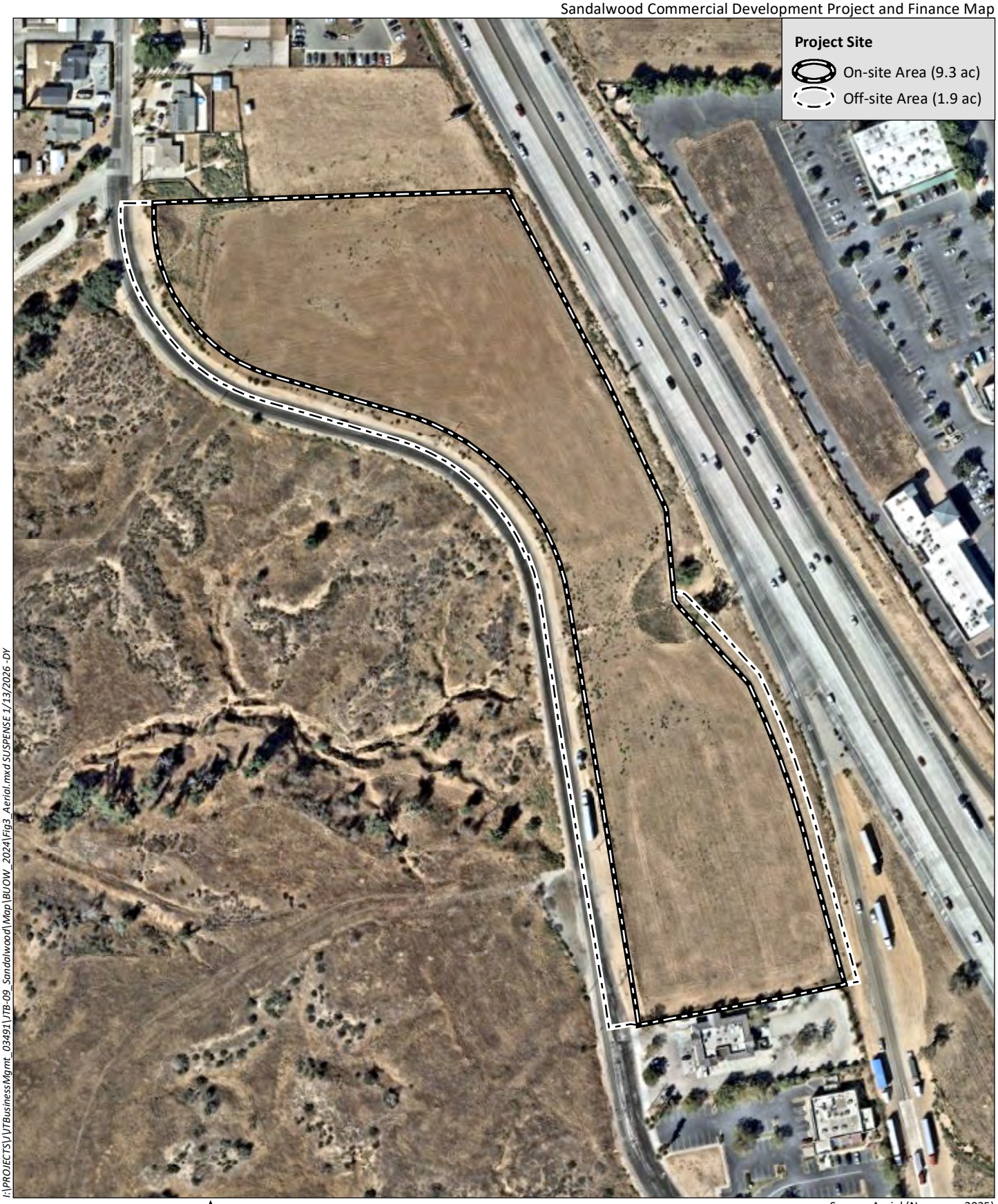


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Source: EL CASCO 7.5' Quad (USGS)

USGS Topography

Figure 2



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Source: Aerial (Nearmap, 2025)

HELIX Environmental Planning

Aerial Photograph

Figure 3



Source: Aerial (Nearmap, 2025)

HELIX Environmental Planning

Suitable Burrow and Transect Locations

Figure 4

Attachment A

Representative Site Photos



Photo 1: View of the of the wild oats and annual brome grasslands in the southern portion of the project site , facing southeast. This community dominates the project site.



Photo 2: View of the earthen burrow located in the southeastern portion of the project site.

\\IrvineDC\Vol3\PROJECTS\JTBusinessMgmt_03491\JTB-09_Sandalwood_Reports\BIO\BUOW\2024_North and South Parcels Focused Surveys\Attachment

Appendix F

Crotch's Bumble Bee Habitat Assessment Report

HELIX Environmental Planning, Inc.
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Irvine, CA 92618
949.573.9450 **tel.**
619.462.0552 **fax**
www.**helixepi**.com

October 10, 2024 03491.00009.001

Mr. Jack Kofdarali
Sandalwood Travel Center, LP
P.O. Box 1958
Corona, CA 92878

Subject: **2024 Crotch's Bumble Bee (*Bombus crotchii*) Habitat Assessment and Survey Report for Sandalwood Commercial Development Project and Finance Map**

Dear Mr. Kofdarali:

This letter presents the results of a habitat assessment for the California Endangered Species Act (CESA) candidate species Crotch's bumble bee (*Bombus crotchii*; CBB) conducted by HELIX Environmental Planning, Inc. (HELIX) for the Sandalwood Commercial Development Project and Finance Map (project). This report describes the methods used to perform the survey and the results.

PROJECT SITE LOCATION

The 11.2-acre project site assessed for the project is generally located west of Interstate 10 (I-10) and north of Sandalwood Drive in the City of Calimesa, Riverside County, California (Figure 1, *Regional Location*). The project site is within Section 14 of Township 2 South, Range 2 West on the U.S. Geological Survey (USGS) 7.5-minute *El Casco* quadrangle (Figure 2, *USGS Topography*). The project site is bordered by 7th Street to the west and I-10 to the east (Figure 3, *Aerial Photograph*). It is located approximately 400 feet north of the intersection of 7th Street and Sandalwood Drive.

METHODS

HELIX consulted the California Department of Fish and Wildlife's (CDFW) California Natural Diversity Database (CNDDB), Bumble Bee Watch, and iNaturalist to determine the nearest CBB occurrence(s). HELIX biologist Cache Tucker conducted the habitat assessment on June 13, 2024. In accordance with the CDFW's Survey Considerations for CESA Candidate Bumble Bee Species, the biologist mapped habitat alliances within the project site.[1] The habitat alliances were classified following the Manual of

[1] California Department of Fish and Wildlife. 2023. Survey Considerations for CESA Candidate Bumble Bee Species. June 6. Available at: https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=213150&inline. Accessed July 2, 2024.

California Vegetation.[2] The biologist recorded the estimated absolute percent cover for individual species for each habitat alliance. In addition to foraging resources, potential nesting habitat (e.g., small mammal burrows, loose soil, bunch grasses, thatch, brush piles, old bird nests, and dead trees) were noted if observed during the assessment.

LITERATURE REVIEW

No recent (i.e., within the last five years) CBB records were found to occur within or adjacent to the project site during the literature review. The nearest, most recent sighting of CBB recorded in the CNDDB was in 2020, 3.1 miles southwest of the project site in the San Timoteo Badlands.[3] There is a historic record from 1975 that overlaps with the project site in the CNDDB. However, this observation covers a large area and the exact observation location is unknown. The nearest, most recent sighting recorded in the Bumble Bee Watch database was in 2024, approximately 6.8 miles northwest of the project site within the San Timoteo Nature Sanctuary.[4] The nearest, most recent sighting recorded in iNaturalist was in 2020, approximately 1.9 miles southwest of the project site within the Cienega Canyon Preserve.[5]

RESULTS

The project site has been used for agriculture since at least 1938[6] and was graded in 2009 for the purpose of implementing a drainage improvement project to support potential future development of the site. The project site is dominated by wild oats and annual brome grasslands, which appear to be maintained on a regular basis (Figure 4; *Vegetation and Land Cover*; Table 1, *Species Composition by Mapped Alliance*). Other alliances included pepper tree grove, developed, and disturbed. The plant species diversity on the project site is limited and consists mostly of non-native annual species as a result of grading, regular discing, and surrounding development (Attachment A, *Plant Species Observed*). Limited potential nesting habitat was observed within the project site, including one ground squirrel (*Otospermophilus beecheyi*) burrow and a small area of loose soil. Representative site photographs are included as Attachment B, *Representative Site Photos*.

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[2] Sawyer, J. O., T. Keeler-Wolf, and J. M. Evens. 2009. A manual of California Vegetation, 2nd ed. California Native Plant Society Press, Sacramento, California. Available at: http://vegetation.cnps.org/. Accessed July 2, 2024.

[3] California Department of Fish and Wildlife. 2024. California Natural Diversity Database and Rarefind. California Department of Fish and Wildlife: Sacramento, California. Available from: https://www.wildlife.ca.gov/Data/CNDDB/Maps-and-Data. Accessed July 2, 2024.

[4] Bumble Bee Watch. 2024. Citizen Science Database. Available from: https://www.bumblebeewatch.org/maps/. Accessed July 2, 2024.

[5] iNaturalist. 2024. Explore Observation, Crotch's Bumble Bee. Available from: https://www.inaturalist.org/observations?place_id=158630&subview=map&taxon_id=271451. Accessed July 25, 2024.

[6] Historic Aerials. 2024. Aerial Imagery of the Sandalwood Commercial Development and Finance Map Project, 33.996017°, -117.061309°. Aerial Imagery from 1938. Available at: https://www.historicaerials.com/viewer. Accessed July 2, 2024.

Table 1
SPECIES COMPOSITION BY MAPPED ALLIANCE

Scientific Name[1]	Common Name	Percentage	Flowering Status
Pepper Tree Grove	**(CA Code[2] 79.200.02)**		
Schinus molle	Peruvian pepper tree	100	Seed
Wild Oats and Annual Brome Grasslands	**(CA Code 44.150.02)**		
Avena sp.	wild oats	30	Dead
Hirschfeldia incana	short-pod mustard	25	Flower
Lactuca serriola	wild lettuce	10	Flower
Bromus rubens	red brome	10	Dead
Convolvulus arvensis	field bindweed	3	Flower
Croton setiger	doveweed	2	Flower
Bare Ground		20	-
Developed	**(CA Code N/A)**		
Bare Ground		100	-
Disturbed	**(CA Code N/A)**		
Bare Ground		100	-

[1] Additional species observed at less than two percent cover are not included in table. Species previously documented on the project site but not observed during the assessment are also not included in table.
[2] CDFW CA Code.
* Nectar species commonly used by CBB (genera *Acmispon, Antirrhinum, Asclepias, Cirsium, Clarkia, Cordylanthus, Dendromecon, Ehrendorferia, Eriogonum, Eschscholzia, Euthamia, Hypericum, Keckiella, Lantana, Lupinus, Monardella, Phacelia, Salvia, Trichostema,* and *Vicia*).

Many of the species noted in Table 1 were either dead or in seed during the habitat assessment, with the exception of short-pod mustard (*Hirschfeldia incana*), wild lettuce (*Lactuca serriola*), field bindweed (*Convolvulus arvensis*), and doveweed (*Croton setiger*). Nectar species commonly used by CBB (e.g., genera *Acmispon, Antirrhinum, Asclepias, Cirsium, Clarkia, Cordylanthus, Dendromecon, Ehrendorferia, Eriogonum, Eschscholzia, Euthamia, Hypericum, Keckiella, Lantana, Lupinus, Monardella, Phacelia, Salvia, Trichostema,* and/or *Vicia*) were not noted within the project site.

The project site is surrounded by commercial, industrial, and residential development to the north, south, and east and undeveloped land to west, and I-10 is directly adjacent to the eastern boundary. Based on a review of aerial photographs and site observations, the undeveloped land directly west of the project site and south of Sandalwood Drive support potential suitable habitat for CBB.[7]

Bumble bees have an annual life cycle. Queens establish nests in the spring and produce female workers, males, and female gynes (i.e., new queens) through summer. The queen, female workers, and males die in the fall. Gynes hibernate through winter and reemerge the following spring to establish new

[7] Google Earth. 2024. Aerial Imagery of the Sandalwood Commercial Development Project and Finance Map, 33.996017°, -117.061309°. Aerial Imagery from May 2023. Available from: http://www.google.com/earth/index.html. Accessed July 2, 2024.

colonies.[8] Colonies require a persistent nectar source through summer to survive. Without a succession of flowers available from spring through summer, a colony will starve and fail to reproduce new gynes.[9] Many of the species noted on the project site were either dead or in seed. Nectar species commonly used by CBB were not noted on the project site. The surrounding areas to the west and south include potential suitable habitat for CBB. However, based on the limited quantity and diversity of nectar resources on the project site, lack of commonly used nectaring species, and limited potential nesting habitat (i.e., one earthen burrow and a small area of loose soil), the project site does not support sufficient resources to sustain a colony.

CONCLUSION

Based on the limited quantity and diversity of nectar resources on the project site, a lack of known occurrences within adjacent areas, and limited potential nesting habitat, the project site does not contain habitat suitable to support CBB and focused surveys are not required.

Please contact Lauren Singleton at LaurenS@helixepi.com or Cache Tucker at CacheT@helixepi.com should you have any questions about this report.

Sincerely,

Lauren Singleton
Senior Biology Project Manager

Cache Tucker
Biologist

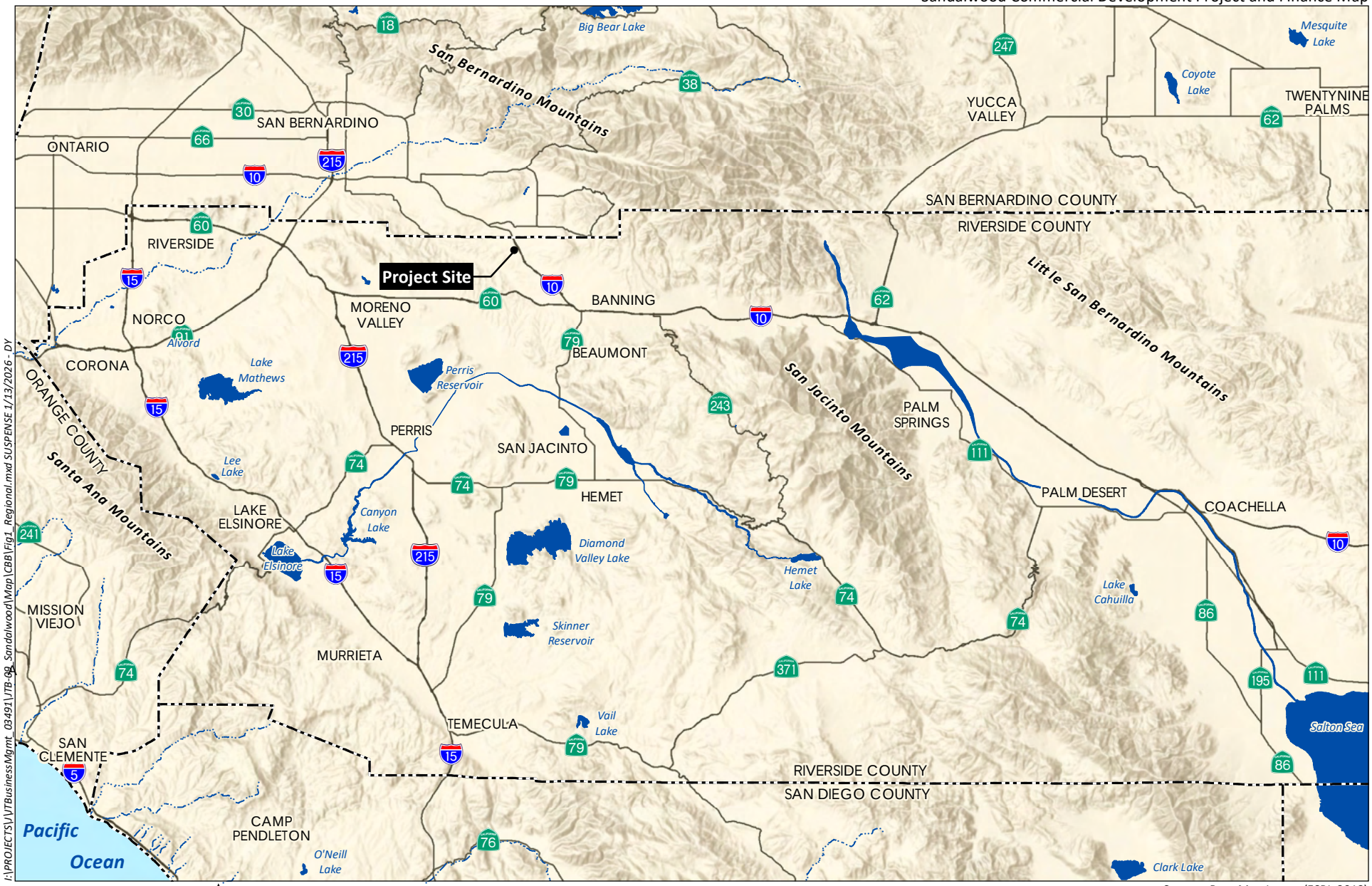
Attachments:

Figure 1: Regional Location
Figure 2: USGS Topography
Figure 3: Aerial Photograph
Figure 4: Vegetation and Land Cover
Attachment A: Plant Species Observed
Attachment B: Representative Site Photos

[8] California Department of Fish and Wildlife. 2019. Evaluation of the Petition from the Xerces Society, Defenders of Wildlife, and the Center for Food Safety to List Four Species of Bumble Bees as Endangered Under the California Endangered Species Act. April 4. Available from: https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=166804&inline. Accessed July 2, 2024.

[9] Goulson, D., G.C. Lye, and B. Darvill. 2008. Decline and conservation of bumble bees. Annual Review of Entomology. 53: 191–208.

Figures



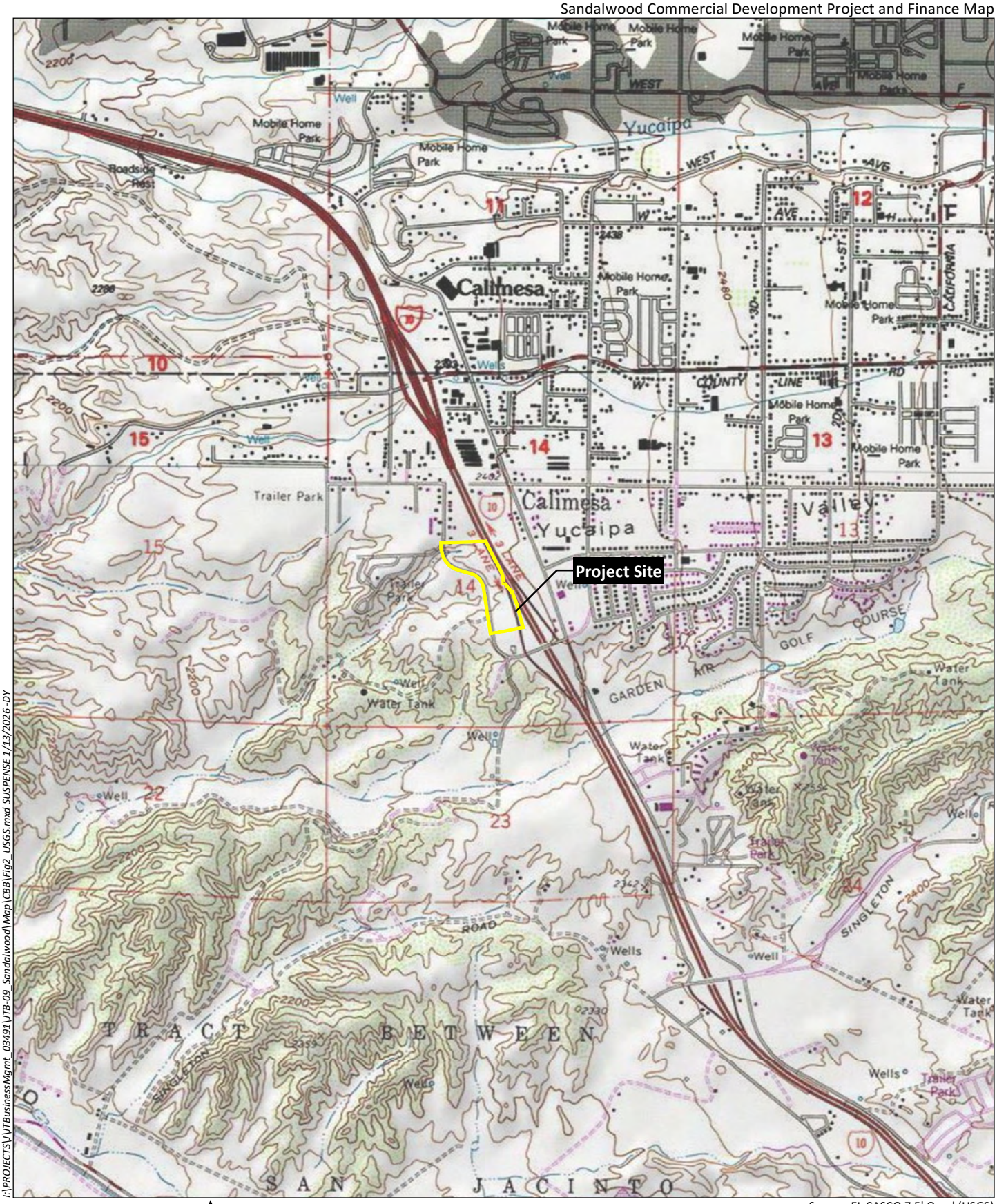
Source: Base Map Layers (ESRI, 2013)

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HELIX Environmental Planning

Regional Location

Figure 1



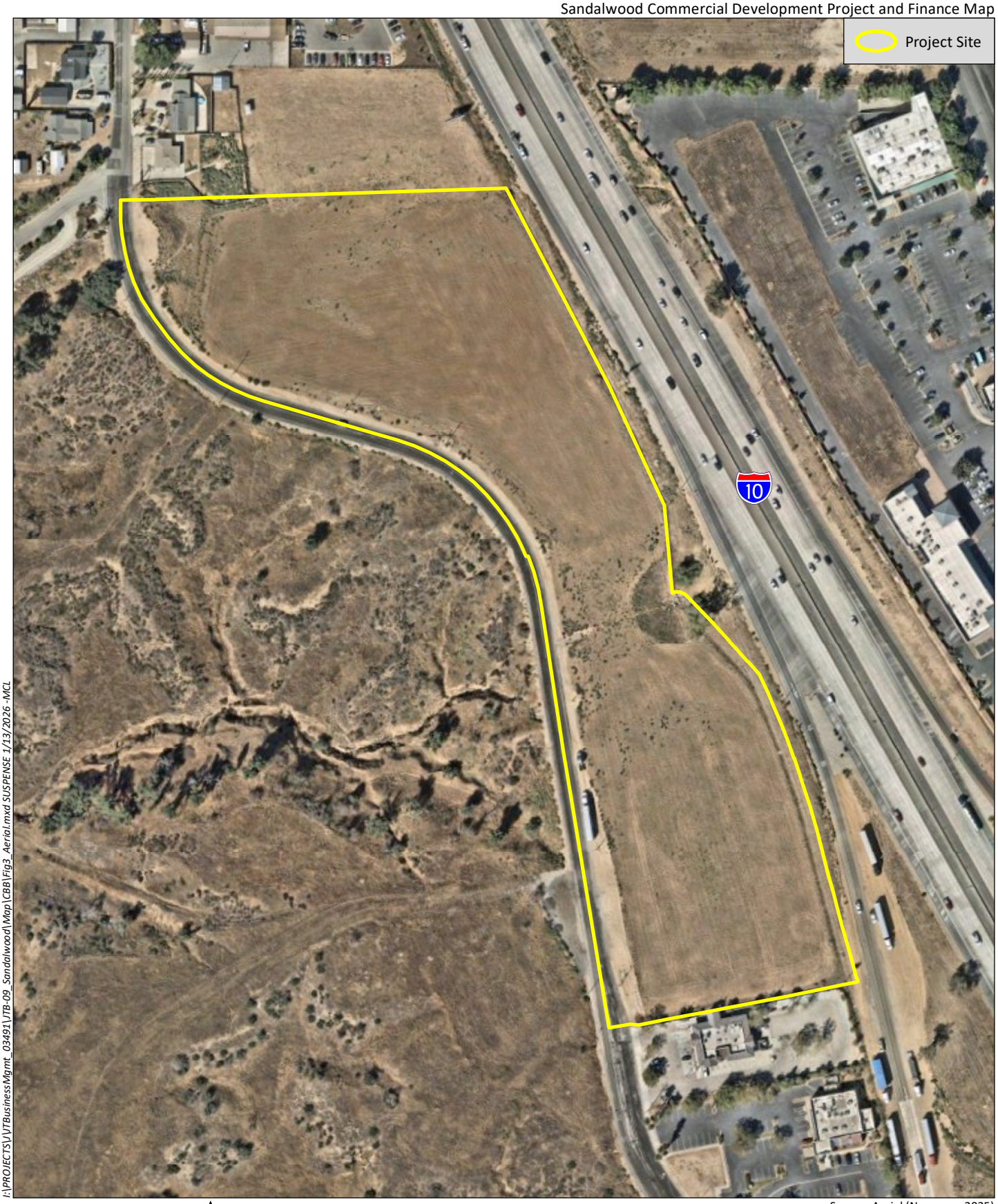
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Source: EL CASCO 7.5' Quad (USGS)

HELIX Environmental Planning

USGS Topography

Figure 2



I:\PROJECTS\VTBusinessMgmt_03491\TB-09_Sandalwood\Map\CBB\Fig3_Aerial.mxd SUSPENSE 1/13/2026 -MCL

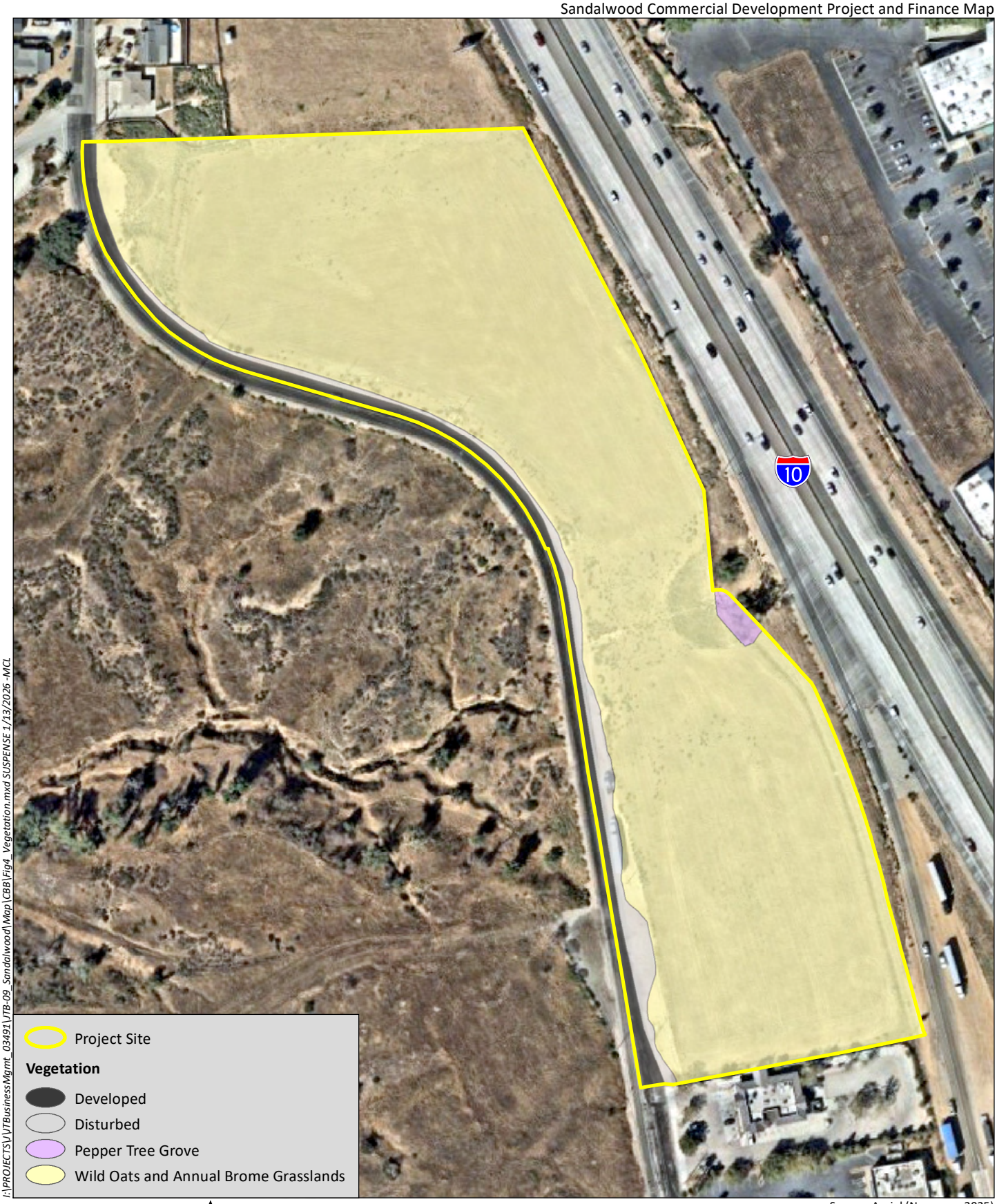
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Source: Aerial (Nearmap, 2025)

HELIX Environmental Planning

Aerial Photograph

Figure 3



I:\PROJECTS\LVTBusinessMgmt_03491\TB-09_Sandalwood\Map\CBB\Fig4_Vegetation.mxd SUSPENSE 1/13/2026 -MCL

Source: Aerial (Nearmap, 2025)

HELIX Environmental Planning

Vegetation and Land Cover

Figure 4

Attachment A

Plant Species Observed

Family	Scientific Name	Common Name
ANGIOSPERMS – EUDICOTS		
Anacardiaceae	*Schinus molle**	Peruvian pepper tree
Asteraceae	*Baccharis salicifolia*	mule fat
	*Centaurea melitensis**	tocalote
	Encelia farinosa	brittlebush
	Erigeron canadensis	horseweed
	Helianthus annus	common sunflower
	Heterotheca grandiflora	telegraph weed
	*Lactuca serriola**	wild lettuce
	Stephanomeria sp.	wire lettuce
Brassicaceae	*Hirschfeldia incana**	short-pod mustard
	*Raphanus sativus**	wild radish
Chenopodiaceae	*Salsola tragus**	Russian thistle
Convolvulaceae	*Convolvulus arvensis**	field bindweed
Euphorbiaceae	*Croton setiger*	doveweed
Solanaceae	*Nicotiana glauca**	tree tobacco
	Datura wrightii	jimson weed
Tamaricaceae	*Tamarix ramosissima**	tamarisk
ANGIOSPERMS – MONOCOTS		
Arecaceae	*Washingtonia filifera**	California fan palm
Poaceae	*Avena sp.**	wild oat
	*Bromus rubens**	red brome

* Non-native species

Attachment B

Representative Site Photos



Photo 1: Wild oats and annual brome grasslands in the southern portion of the project site, facing southeast.



Photo 2: Wild oats and annual brome grasslands in the central portion of the project site, facing northeast.

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Appendix G

Rare Plant Species Potential to Occur

Species Name[1]	Common Name	Status[2]	Habitat, Ecology, and Life History	Potential to Occur[3]
Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP) Narrow Endemic Plant Species Survey Area (NEPSSA) Eight				
Allium marvinii	Yucaipa onion	CRPR 1B.2 MSHCP Covered Species (b)	Perennial herb. Occurs in openings on clay soils and chaparral. Elevation range 760-1065 meter (m). Flowering period Mar-Apr.	**None.** The project site does not support clay soils and is outside of this species' elevation range.
Dudleya multicaulis[4]	many-stemmed dudleya	CRPR 1B.2 MSHCP Covered Species (b)	Perennial herb. Occurs in heavy soils (often clay) and sandstone outcrops. Often associated with dry, stony places within coastal sage scrub, valley grasslands, and coastal plains. Elevation range 15-790 m. Flowering period May-Jun.	**None.** The project site does not support heavy clay soils, mapped clay soils, or sandstone outcrops.
Other Rare Plant Species				
Aphyllon epigalium ssp. *Notocalifornicum*	Southern California galium broomrape	CRPR 1B.3	Annual/perennial herb (parasitic). Occurs in riparian forest, cismontane woodland, and lower montane coniferous forest. Associated host is *Galium andrewsii* and possibly other perennial *Galium* spp. Elevation range 1,200-1,535 m. Flowering period Jun-Jul.	**None.** The project site does not support riparian forest, cismontane woodland, or lower montane coniferous forest. The project site is outside of this species' geographic and elevation range.
Astragalus pachypus var. *jaegeri*	Jaeger's bush milkvetch	CRPR 1B.1 MSHCP Covered Species	Shrub. Occurs in rocky areas or sandy soils within grassland, oak woodland, chaparral, and coastal scrub. Elevation range 450-1200 m. Flowering period Dec-Jun.	**None.** The project site does not support rocky or sandy areas within grassland, oak woodland, chaparral, and coastal scrub.
Atriplex coronata var. *notatior*	San Jacinto Valley crownscale	FE CRPR 1B.1 MSHCP Covered Species (d)	Annual herb. Restricted to highly alkaline and silty-clay soils, which are found in certain alkali sink scrub, alkali playa, vernal pool, and annual alkali grassland habitats. Elevation range 139-500 m. Flowering period Apr-Aug.	**None.** The project site does not support alkaline soils and is outside of this species' elevation range.

Species Name[1]	Common Name	Status[2]	Habitat, Ecology, and Life History	Potential to Occur[3]
Atriplex serenana var. *davidsonii*	Davidson's saltscale	CRPR 1B.2 MSHCP Covered Species (d)	Annual herb. This species is historically associated with the isolated alkaline flats of southern California valley areas that have primarily been drained and converted to residential housing or agriculture. Elevation range 10-200 m. Flowering period Apr-Oct.	**None.** The project site does not support alkaline flats, and is outside of this species' elevation range.
Centromadia pungens ssp. *laevis*	smooth tarplant	CRPR 1B.1 MSHCP Covered Species (d)	Annual herb. Occurs within alkali scrub, alkali playas, riparian woodland, watercourses, and grasslands near alkaline locales. Elevation range 0-640 m. Flowering period Apr-Sep.	**None.** The project site does not support alkaline habitats and is outside of this species' elevation range.
Chorizanthe parryi var. *parryi*	Parry's spineflower	CRPR 1B.1 MSHCP Covered Species (e)	Annual herb. Occurs in sandy soil on flats and foothills in mixed grassland, coastal sage scrub, and chaparral communities. Elevation range 275-1,220 m. Flowering period May-Jun.	**None.** The project site does not support coastal sage scrub or chaparral habitats. There is only a small, isolated area of non-native grassland in the western portion of the project site. This species is not expected to occur in this area.
Chorizanthe xanti var. leucotheca	white-bracted spineflower	CRPR 1B.2	Annual herb. Found in Mojavean desert scrub, pinyon and juniper woodland, and coastal scrub (alluvial fans). Elevation range 30-1,200 m. Flowering period Apr-Jun.	**None.** The project site does not support Mojavean desert scrub, pinyon or juniper woodland, or coastal scrub habitats.
Dodecahema leptoceras	slender-horned spineflower	FE/SE CRPR 1B.1 MSHCP Covered Species (b)	Annual herb. Occurs in sandy or gravelly places within chaparral, cismontane woodland, and coastal scrub associated with alluvial fans. Elevation range 200-760 m. Flowering period May-Jun.	**None.** The project site does not support chaparral, cismontane woodland, or coastal scrub habitats.

Species Name[1]	Common Name	Status[2]	Habitat, Ecology, and Life History	Potential to Occur[3]
Eriastrum densifolium ssp. *sanctorum*	Santa Ana River woollystar	FE/SE CRPR 1B.1	Perennial herb. Occurs on sandy soils within river floodplains or terraced fluvial deposits. Elevation range 91-610 m. Flowering period May-Sep.	**None.** The project site is located outside of this species' geographic range and is outside of this species' elevation range. The project site does not support river floodplains or terraces.
Hordeum intercedens	vernal barley	CRPR 3.2 MSHCP Covered Species	Annual grass. Saline flats and depressions in grasslands or in vernal pool basins. Elevation range 5-1,000 m. Flowering period Mar-Jun.	**None**. The project site does not support saline flats, depressional areas, or vernal pool basins.
Imperata brevifolia	California satintail	CRPR 2B.1	Annual herb. Coastal scrub, chaparral, riparian scrub, Mojavean desert scrub, meadows and seeps (alkali), and riparian scrub. Elevation range 0-1,215 m. Flowering period Sep-May.	**None.** The project site does not support coastal scrub, chaparral, riparian scrub, Mojavean desert scrub, meadows or seeps (alkali), or riparian scrub.
Lasthenia glabrata ssp. *coulteri*	Coulter's goldfields	CRPR 1B.1 MSHCP Covered Species (d)	Annual herb. Occurs in coastal salt marsh, upper end of tidal inundation areas, and vernal pools. Elevation range 1-1,220 m. Flowering period Apr-May.	**None.** The project site does not support coastal habitat or vernal pools.
Monardella macrantha ssp. *hallii*	Hall's monardella	CRPR 1B.3	Perennial herb. Occurs on dry slopes and ridges in openings within woodland, chaparral, lower montane coniferous forest and valley and foothill grassland. Elevation range 730-2,195 m. Flowering period May-Aug.	**None.** The project site does not support woodland, chaparral, or lower montane coniferous forest. There is only a small, isolated area of non-native grassland in the western portion of the project site. This species is not expected to occur in this area.

Species Name[1]	Common Name	Status[2]	Habitat, Ecology, and Life History	Potential to Occur[3]
Nama stenocarpa	mud nama	CRPR 2B.2 MSHCP Covered Species (d)	Annual or perennial herb. Occurs in marshes and swamps and along lake margins and riverbanks. Elevation range 5-500 m. Flowering period Mar-Oct.	**None.** The project site does not support vernal pools or alkaline marshes, and is outside of this species' elevation range.
Sidalcea hickmanii ssp. *parishii*	Parish's checkerbloom	CRPR 1B.2	Perennial herb. Occurs in chaparral, cismontane woodland, lower montane coniferous forest. Disturbed burned or cleared areas on dry, rocky slopes, in fuel breaks and fire roads along the mountain summits. Elevation range 1,000-2,499 m. Flowering period Jun-Aug.	**None.** The project site does not support chaparral, cismontane woodland, or lower montane coniferous forest habitats, and is outside of this species' elevation range.
Sidalcea neomexicana	salt spring checkerbloom	CRPR 2B.2	Perennial herb. Occurs within alkaline, mesic soils within springs and marshes. Elevation range 15-1,530 m. Flowering period Apr-Jun.	**None.** The project site does not support alkaline springs or marshes.
Streptanthus campestris	southern jewelflower	CRPR 1B.3	Perennial herb. Chaparral, lower montane coniferous forest, pinyon and juniper woodland. Elevation range 900-2,300 m. Flowering period May-Jun.	**None.** The project site does not support chaparral, lower montane coniferous forest, or pinyon or juniper woodland habitats, and is outside of this species' elevation range.
Symphyotrichum defoliatum	San Bernardino aster	CRPR 1B.2	Perennial herb. Occurs in vernally mesic soils within cismontane woodland, coastal scrub, lower montane coniferous forest, meadows and seeps, marshes and swamps, grasslands, streams, springs, and disturbed ditches. Elevation range 2-2,040 m. Flowering period Jul-Nov.	**None.** The project site does not support vernally mesic soils.

Species Name[1]	Common Name	Status[2]	Habitat, Ecology, and Life History	Potential to Occur[3]
Trichocoronis wrightii var. *wrightii*	Wright's trichocoronis	CRPR 2B.1	Annual herb. Occurs in moist alkaline soils within mud flats of vernal pools/lakes and drying river beds. Elevation range 5-435 m. Flowering period May-Sep.	**None.** The project site does not support alkaline mud flats or dry river beds, and is outside of this species' elevation range.

Source: HELIX (2025)

[1] Sensitive species reported within the *El Casco* and *Yucaipa* quadrangles based on a database search conducted through the CNDDB and CNPS.

[2] Listing is as follows: F = Federal; S = State of California; E = Endangered; T = Threatened.
CRPR = California Rare Plant Rank: 1A – presumed extinct; 1B – rare, threatened, or endangered in California and elsewhere; 2A – rare, threatened, or endangered in California and elsewhere; 2B – rare, threatened, or endangered in California but more common elsewhere. Extension codes: .1 – seriously endangered; .2 – moderately endangered; .3 – not very endangered. MSHCP Conditionally Covered Species (a) through (f): (a) surveys may be required for species as part of wetland mapping (MSHCP Section 6.1.2); (b) surveys may be required for species within Narrow Endemic Plant Species Survey Area (MSHCP Section 6.1.3); (c) surveys may be required for species within locations shown on survey maps (MSHCP Section 6.3.2); (d) surveys may be required for species within Criteria Area Species Survey Area (MSHCP Section 6.3.2); (e) covered species will be considered to be covered species adequately conserved when conservation requirements identified in species-specific conservation objectives have been met (MSHCP Table 9-3); and (f) covered species will be conserved covered species adequately conserved when a Memorandum of Understanding is executed with the Forest Service that addresses management for these species on Forest Service Land (MSHCP Table 9-3).

[3] Potential to Occur is assessed as follows: **None**: Habitat suitable for species survival does not occur on the project site, the project site is not within geographic range of the species, and/or the project site is not within the elevation range of the species; **Low**: Suitable habitat is present on the project site but of low quality and/or small extent. The species has not been recorded recently on or near the project site. Although the species was not observed during surveys for the current project, the species cannot be excluded with certainty; **Moderate**: Suitable habitat is present on the project site and the species was recorded recently near the project site; however, the habitat is of moderate quality and/or small extent. Although the species was not observed during surveys for the current project, the species cannot be excluded with certainty; **High**: Suitable habitat of sufficient extent is present on the project site and the species has been recorded recently on or near the project site, but was not observed during surveys for the current project. However, focused/protocol surveys are not required or have not been completed; Presumed **Present**: The species was observed during focused surveys for the current project and is assumed to occupy the project site; **Presumed Absent**: Suitable habitat is present on the project site but focused surveys for the species were negative.

[4] This species was not reported within the *El Casco* or *Yucaipa* quadrangles, but was included in this table since this species is a target species for the Narrow Endemic Plant Species Survey Area the project site is located within.

Appendix H

Sensitive Animal Species Potential to Occur

Species Name	Common Name	Status[2]	Habitat, Ecology, and Life History	Potential to Occur[3]
Invertebrates				
Bombus crotchii	Crotch's bumble bee	SCE	Coastal California east to the Sierra-Cascade crest and south into Mexico and is associated with grassland and scrub habitats near the coast. Species' food genera include *Antirrhinum* spp., *Clarkia* spp., *Dendromecon* spp., *Eriogonum* spp., *Eschscholzia* spp., *Lupinus* spp., *Medicago* spp., *Phacelia* spp., and *Salvia* spp. Nests are underground and commonly consist of abandoned rodent nests.	**None.** Based on the limited quantity and diversity of nectar resources on the project site, a lack of known occurrences within adjacent areas, and limited potential nesting habitat, the project site does not contain suitable habitat. See Appendix E for detailed habitat assessment report.
Fish				
Oncorhynchus mykiss irideus	steelhead - southern California Distinct Population Segment (DPS)	FE	Typically migrate up freshwater streams from saltwater or brackish water to spawn. Southern steelhead have a greater tolerance to warmer water.	**None.** The project site does not support suitable stream habitat.
Rhinichthys gabrielino	Santa Ana speckled dace	SSC	Occurs in perennial streams located in the headwaters of Santa Ana and San Gabriel rivers. Prefers summer water temperatures between 17 and 20 degrees Celsius within shallow reaches with riffles.	**None.** The project site does not support suitable stream habitat.
Amphibians				
Rana muscosa	southern mountain yellow-legged frog	FE/SE MSHCP Covered Species (c)	Occurs in mountain creeks, lakes and lakeshores, streams, and pools, preferring sunny areas. This species rarely strays far from water and can remain underwater for long periods of time. Always encountered within a few feet of water. Tadpoles may require 2 to 4 years to complete their aquatic development.	**None**. The project site does not support suitable aquatic habitat for this species.
Spea hammondii	western spadefoot	FCT/SSC MSHCP Covered Species	Occurs in open coastal sage scrub, chaparral, and grassland, along sandy or gravelly washes, floodplains, alluvial fans, or playas; require temporary pools for breeding and friable soils for burrowing; generally excluded from areas with bullfrogs (*Lithobates catesbeianus*) or crayfish (*Procambarus* spp.).	**None.** The project site does not support washes, floodplains, alluvial fans, or temporary pools.

Species Name	Common Name	Status[2]	Habitat, Ecology, and Life History	Potential to Occur[3]
Reptiles				
Anniella stebbinsi	Southern California legless lizard	SSC	Occurs in moist warm loose soil with plant cover. May be found in coastal sand dunes, chaparral, pine-oak woodlands, desert scrub, sandy washes, and stream terraces with sycamores, cottonwoods, or oaks.	**None.** The project site does not support habitat with moist soil and plant cover for burrowing.
Arizona elegans occidentalis	California glossy snake	SSC	Most common in desert habitats, but also occurs in chaparral, sagebrush, valley-foothill hardwood, pine-juniper, and annual grassland. Associated with sandy open areas with sparse shrub cover but can also occur in rocky habitats.	**None.** The project site does not support desert habitat, chaparral, sagebrush, forest, or rocky habitats. Although there is some non-native grassland mapped along the western project site boundary, this species is not expected to occur here since the habitat is small and isolated from other potentially suitable habitat and is located directly adjacent to I-10.
Aspidoscelis tigris stejnegeri	coastal whiptail	SSC MSHCP Covered Species	Open coastal sage scrub, chaparral, and woodlands. Frequently found along the edges of dirt roads traversing its habitats. Important habitat components include open, sunny areas, shrub cover with accumulated leaf litter, and an abundance of insects, spiders, or scorpions.	**None.** The project site does not support open coastal sage scrub, chaparral, or woodlands.
Phrynosoma blainvillii	coast horned lizard	SSC MSHCP Covered Species	Coastal sage scrub and open areas in chaparral, oak woodlands, and coniferous forests with sufficient basking sites, adequate scrub cover, and areas of loose soil; require native ants, especially harvester ants (*Pogonomyrmex* spp.), and are generally excluded from areas invaded by Argentine ants (*Linepithema humile*).	**None.** The project site does not support coastal sage scrub, chaparral, oak woodlands, or coniferous forest habitats.
Salvadora hexalepis virgultea	coast patch-nosed snake	SSC	Primarily found in chaparral but also inhabits coastal sage scrub and areas of grassland mixed with scrub. Uses small mammal burrows for refuge and overwintering.	**None.** The project site does not support coastal sage scrub or grassland mixed with shrubs.

Species Name	Common Name	Status[2]	Habitat, Ecology, and Life History	Potential to Occur[3]
Thamnophis hammondii	two-striped gartersnake	SSC	Occurs along perennial and intermittent streams bordered by dense riparian vegetation. Occasionally occurs in artificially created aquatic habitats, such as constructed lakes or stock ponds.	**None.** The project site does not support perennial or intermittent streams.
Birds				
Agelaius tricolor	tricolored blackbird	ST MSHCP Covered Species	Breeds in dense stands of cattails (*Typha* sp.) or bulrushes (*Schoenoplectus* sp./*Scirpus* sp.) located within large freshwater marshes. Forages in adjacent open habitats, such as agricultural fields, pastures, or grasslands.	**None.** The project site does not support freshwater marsh for breeding or agricultural for foraging.
Aquila chrysaetos	golden eagle	SFP MSHCP Covered Species	Typical foraging habitat includes grassy and open, shrubby habitats. Generally, nests on remote cliffs; requires areas of solitude at a distance from human habitation.	**None.** The project site does not support suitable nesting or foraging habitat.
Athene cunicularia	burrowing owl	SCT MSHCP Covered Species (c)	Typical habitat is grasslands, open scrublands, agricultural fields, and other areas where there are ground squirrel burrows or other areas in which to burrow.	**Absent.** The project site supports suitable habitat and two burrows/burrow surrogates. Focused surveys were conducted during the 2024 breeding season, which were negative. See Appendix D for detailed habitat assessment report.
Buteo swainsoni	Swainson's hawk	ST MSHCP Covered Species	Breeds in open grassland with scattered trees or groves within agricultural/ranch lands. Forages for small mammals, reptiles, birds, and insects in adjacent grassland and agricultural fields.	**Low.** This species is not known to nest in southern California with the exception of populations in the Antelope Valley and Mojave Desert. Undeveloped land on the project site could provide low quality foraging habitat, although no mammal burrows were observed on the project site. This species was recorded in eBird in 2017, approximately 2.7 miles to the northeast of the project site.

Species Name	Common Name	Status[2]	Habitat, Ecology, and Life History	Potential to Occur[3]
Elanus leucurus	white-tailed kite	SFP MSHCP Covered Species	Nests in trees with dense canopies within open grasslands, woodlands, and marshes. Forages for small mammals within lightly grazed/ungrazed pastures and grasslands.	**Low.** The project site supports a few Peruvian pepper trees (*Schinus molle*) that could be used for nesting habitat, although this is considered low quality nesting habitat since these trees are directly adjacent to I-10. Undeveloped land on the project site could provide low quality foraging habitat, although no mammal burrows were observed on the project site. This species was recorded in eBird in 2018, approximately 0.4 mile to the southeast of the project site.
Empidonax traillii extimus	southwestern willow flycatcher	FE/SE MSHCP Covered Species (a)	Nests within thickets of willows or other riparian understory usually along streams, ponds, lakes, or canyons. Migrants may be found among other shrubs in wetter areas.	**None.** The project site does not support mature riparian woodlands.
Icteria virens	yellow-breasted chat	SSC MSCHP Covered Species	Summer resident of mature riparian woodlands. Nests are placed in low, dense vegetation, such as willows (*Salix* sp.), blackberry (*Rubus* sp.), and wild grape (*Vitis californica*).	**None.** The project site does not support mature riparian woodlands.
Lanius ludovicianus	loggerhead shrike	SSC MSCHP Covered Species	Nests in dense, often thorny, shrubs or trees. Will nest within brush piles or tumbleweeds when trees or shrubs are not present. Feeds on a wide variety of animals, including arthropods, amphibians, reptiles, small mammals, and small songbirds within open habitats such as grasslands, agricultural fields, pastures, shrublands, and ruderal areas with adequate perching locations.	**Low.** The project site does not support suitable nesting habitat. Undeveloped land on the project site could provide low quality foraging habitat. This species was recorded in eBird in 2015, approximately 2.3 miles to the southwest of the project site.
Setophaga petechia	yellow warbler	SSC MSHCP Covered Species	Breeds in lowland and foothill riparian woodland, dominated by cottonwoods, alders, or willows.	**None.** The project site does not support mature riparian woodlands.

Species Name	Common Name	Status[2]	Habitat, Ecology, and Life History	Potential to Occur[3]
Vireo bellii pusillus	least Bell's vireo	FE/SE MSHCP Covered Species (a)	Inhabits riparian woodland and is most frequent in areas that combine an understory of dense, young willows or mule fat with a canopy of tall willows.	**None.** The project site does not support suitable habitat for this species.
Mammals				
Dipodomys merriami parvus	San Bernardino kangaroo rat	FE/SE MSHCP Covered Species (c)	Generally associated with alluvial fan sage scrub, but also occurs in sage scrub, chaparral, and grassland in proximity to alluvial fan sage scrub habitats.	**None.** The project site and adjacent areas do not support alluvial fan sage scrub habitat.
Dipodomys stephensi	Stephens' kangaroo rat	FE/ST MSHCP Covered Species	Primarily occurs in sparsely vegetated areas within grassland habitats, but also found in open coastal scrub habitat. Feeds on filaree (*Erodium* sp.) and brome (*Bromus* sp.) seeds. Digs burrows in firm soil or uses abandoned pocket gopher burrows.	**None.** The project site supports a small area of non-native grassland along the eastern project boundary. No small mammal burrows were observed on the project site. This species recorded in CNDDB in 1990, approximately 3.3 miles to the southeast of the project site.
Lasiurus xanthinus	western yellow bat	SSC	Roosts in trees and are commonly found in palms and cottonwoods. Typically forages over water and among trees within riparian, desert riparian, desert wash, and palm oasis habitats.	**None**. The project site does not support roosting or foraging habitat.
Leptonycteris yerbabuenae	lesser long-nosed bat	SSC	Caves and mines are used as day roosts. Caves, mines, rock crevices, trees and shrubs, and abandoned buildings are used as night roosts for digesting meals. Nectar, pollen, and fruit-eating bat that primarily feeds on agaves, saguaro, and organ pipe cactus.	**None**. The project site does not support roosting or foraging habitat.
Neotoma lepida intermedia	San Diego desert woodrat	SSC MSHCP Covered Species	Open chaparral, coastal sage scrub, pinyon-juniper, and Joshua tree habitats. This species builds large, stick nests in rock outcrops or around clumps of cactus or yucca.	**None**. The project site does not support coastal sage scrub, pinyon-juniper, or Joshua tree habitats. Cactus and yucca are not present.
Onychomys torridus ramona	southern grasshopper mouse	SSC	Sandy valley floors within desert scrub habitat with low to moderate shrub cover and friable soils, but also found in coastal scrub and chaparral habitats.	**None**. The project site does not support desert scrub, coastal scrub, or chaparral habitats.

Species Name	Common Name	Status[2]	Habitat, Ecology, and Life History	Potential to Occur[3]
Perognathus longimembris brevinasus	Los Angeles pocket mouse	SSC MSHCP Covered Species (c)	Sandy, gravelly, or stony soils within coastal scrub, alluvial sage scrub, and grassland habitats.	**Low.** The project site supports a small area of non-native grassland along the eastern project boundary. No small mammal burrows were observed on the project site. This species was recorded in the CNDDB in 2016, approximately 4.9 miles to the southeast of the project site.

Source: HELIX (2025)

[1] Sensitive species reported within the *El Casco* and *Yucaipa* quadrangles based on a database search conducted through the CNDDB.

[2] Listing is as follows: F = Federal; S = State of California; E = Endangered; T = Threatened; CE = Candidate Endangered; CT = Candidate Threated; FP = Fully Protected; SSC = State Species of Special Concern. MSHCP Conditionally Covered Species (a) through (f): (a) surveys may be required for species as part of wetland mapping (MSHCP Section 6.1.2); (b) surveys may be required for species within Narrow Endemic Plant Species Survey Area (MSHCP Section 6.1.3); (c) surveys may be required for species within locations shown on survey maps (MSHCP Section 6.3.2); (d) surveys may be required for species within Criteria Area Species Survey Area (MSHCP Section 6.3.2); (e) covered species will be considered to be covered species adequately conserved when conservation requirements identified in species-specific conservation objectives have been met (MSHCP Table 9-3); and (f) covered species will be conserved covered species adequately conserved when a Memorandum of Understanding is executed with the Forest Service that addresses management for these species on Forest Service Land (MSHCP Table 9-3).

[3] Potential to Occur is assessed as follows. **None**: Species is so limited to a particular habitat that it cannot disperse across unsuitable habitat (*e.g.* aquatic organisms), and habitat suitable for its survival does not occur on the project site; **Not Expected**: Species moves freely and might disperse through or across the project site, but suitable habitat for residence or breeding does not occur on the project site (includes species recorded during surveys but only as transients); **Low**: Suitable habitat is present on the project site but of low quality and/or small extent. The species has not been recorded recently on or near the project site. Although the species was not observed during surveys for the current project, the species cannot be excluded with certainty; **Moderate**: Suitable habitat is present on the project site and the species was recorded recently near the project site; however, the habitat is of moderate quality and/or small extent. Although the species was not observed during surveys for the current project, the species cannot be excluded with certainty; **High**: Suitable habitat of sufficient extent for residence or breeding is present on the project site and the species has been recorded recently on or near the project site, but was not observed during surveys for the current project. However, focused/protocol surveys are not required or have not been completed; **Presumed Present**: The species was observed during biological surveys for the current project and is assumed to occupy the project site; **Presumed Absent**: Suitable habitat is present on the project site but focused/protocol surveys for the species were negative.

Appendix C
Cultural Resources Survey Report

Sandalwood Commercial Development Project

Cultural Resources Survey

March 2022 | 03491.00009.001

Submitted to:

City of Calimesa
908 Park Avenue
Calimesa, CA 92320

Prepared for:

J & T Investments
P. O. Box 1958
Corona, CA 92878

Stacie Wilson, RPA
Senior Archaeologist

Prepared by:

HELIX Environmental Planning, Inc.
7578 El Cajon Boulevard
La Mesa, CA 91942

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National Archaeological Database Information

Authors:	Kassie Sugimoto, Theodore G. Cooley, and James Turner
Firm:	HELIX Environmental Planning, Inc.
Client/Project:	J & T Investments / Sandalwood Commercial Development Project
Report Date:	March 2022
Report Title:	Cultural Resources Survey for the Sandalwood Commercial Development Project, Calimesa, California
Submitted to:	City of Calimesa
Type of Study:	Cultural Resources Survey
New Sites:	None
Updated Sites:	P-33-150300
USGS Quad:	El Casco 7.5' Quadrangle
Acreage:	Approximately 10 acres
Key Words:	Riverside County; Township 2 South, Range 2 West; Calimesa; 7th Street; Interstate 10

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ACRONYMS AND ABBREVIATIONS

AB	Assembly Bill
APN	Assessor's Parcel Number
CCR	California Code of Regulations
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
City	City of Calimesa
CRHR	California Register of Historical Resources
DPR	Department of Parks and Recreation
EIC	Eastern Information Center
GLO	General Land Office
HELIX	HELIX Environmental Planning, Inc.
I	Interstate
m	meter
NAHC	Native American Heritage Commission
NHPA	National Historic Preservation Act
NRHP	National Register of Historic Places
PRC	Public Resources Code
project	Sandalwood Commercial Development Project
SLR	San Luis Rey
TCP	Traditional Cultural Properties
TCR	Tribal Cultural Resources
USGS	U.S. Geological Survey

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EXECUTIVE SUMMARY

J & T Investments contracted HELIX Environmental Planning, Inc. (HELIX) to provide cultural resources services for the Sandalwood Commercial Development Project (project) in the City of Calimesa, Riverside County, California. The project is a proposed approximately five-acre commercial development project within the southern half of Assessor Parcel Number (APN) 411-210-024. A cultural resources study including a records search, Sacred Lands File search, Native American outreach, a review of historic aerial photographs and maps, and a pedestrian survey was conducted for the project site, the southern half of APN 411-210-024, and the additional five acres north of the proposed development site (study area). This report details the methods and results of the cultural resources study and has been prepared to comply with the California Environmental Quality Act (CEQA).

The records search obtained from the Eastern Information Center (EIC) on March 22, 2021, indicated that six previous cultural resources are located within a half-mile of the study area, one of which resides within the project site. No prehistoric sites were recorded within a half-mile of the project site. One historic resource, site P-33-015300, a series of nine historic-era utility poles, is located within the project site. One historic resource is located outside of the development footprint but within proximity to the project, within the study area. P-33-015299 consisted of two glass bottle fragments, which date from 1880 to 1914, and a scattering of porcelain plate fragments that were too small to be dated. The remaining four resources recorded in the records search radius consist of historic sites associated with rural residences, agricultural, and farming activities located west of Interstate 10 to the north and south of the project.

A pedestrian field survey of the study area was conducted by HELIX and a Native American monitor from the Morongo Band of Mission Indians, Lerae Necochea, on February 16, 2021. One historic isolate (P-33-015299) consisting of a glass bottle and porcelain plate fragments was previously recorded within the five acres located north of the proposed development site. However, the glass bottle and porcelain fragments were not reidentified during the pedestrian survey. The project will not impact P-33-015299 because it is located outside of the development footprint. One additional historic resource, P-33-015300, consisting of nine wooden utility poles, is located within the project site along the east side of Seventh Street. Site P-33-015300 was re-examined by HELIX on December 8, 2021. Of the nine contributing utility poles, only three poles are within the project site and are slated for removal so that the utilities may be moved underground. Of the three poles, only one pole is of historic age. However, the pole is not considered a resource individually. The pole is a contributor to a historic alignment. However, the project will not be altering the alignment. As such, the project will not cause a significant impact under CEQA or an adverse effect under the National Historic Preservation Act (NHPA) to P-33-15300. Furthermore, HELIX submitted an update to the Department of Parks and Recreation (DPR) Primary Record Form to the EIC. No other cultural resources were observed during the pedestrian survey.

The Native American Heritage Commission (NAHC) conducted a Sacred Lands File search on December 22, 2020, and provided a list of Native American contacts who may have knowledge of sacred sites within the area. HELIX sent letters to the contacts listed by the NAHC on February 5, 2021, to scope for additional information regarding tribal resources within the study area. HELIX received three responses from the San Manuel Band of Mission Indians, Agua Caliente Band of Cahuilla Indians, and Fort Yuma Quechan Indian Tribe. However, no additional information regarding tribal or cultural resources within the study area was provided by the tribes.

Based on the results of the current study, no archaeological or historical resources will be affected by the Sandalwood Commercial Development Project. As such, no impacts to cultural resources are anticipated. Due to previous site grading (unrelated to the project), there is a low sensitivity for buried cultural resources. However, the possibility of encountering buried resources within disturbed soil conditions cannot be precluded. As such, this study recommends that the project retain a qualified archaeologist to consult with in the event cultural deposits are encountered during development. No mitigation measures are recommended for the project unless additional resources are identified through tribal consultation. In the event that additional cultural resources or sensitivities are identified through tribal consultation, this study recommends an archaeological and Native American monitoring program be implemented for ground-disturbing activities.

1.0 INTRODUCTION

J & T Investments contracted HELIX Environmental Planning, Inc. (HELIX) to provide cultural resources services for the Sandalwood Commercial Development Project (project) in the City of Calimesa, Riverside County, California. The project intends to develop approximately five acres within the southern half of Assessor Parcel Number (APN) 411-210-024 for commercial development (project site). A cultural resources study including a records search, Sacred Lands File search, Native American outreach, a review of historic aerial photographs and maps, and a pedestrian survey was conducted for the project site and the adjacent five acres located north of the project site (study area). This report details the methods and results of the cultural resources study and has been prepared to comply with the California Environmental Quality Act (CEQA).

1.1 PROJECT LOCATION

The project is located in the City of Calimesa (City) in northern Riverside County (Figure 1, *Regional Location*). The project is located west of Interstate (I-) 10, within Section 14 of Township 2 South, Range 2 West, on the U.S. Geological Survey (USGS) 7.5' El Casco quadrangle (Figure 2, *USGS Topography*). The project intends to develop the southern half of APN 411-210-024 (project site), which is bordered by Seventh Street to the west and I-10 to the east (Figure 3, *Aerial Photograph*). The project site is situated between Villa Calimesa Lane to the north and Sandalwood Drive to the south. Although development is only proposed in the southern half of the parcel, this analysis refers to the entire parcel (APN 411-210-024) as the "study area" (Figure 4, *Proposed Project*).

1.2 PROJECT DESCRIPTION

The project proposes to develop a fueling station with a 3,849 square-foot Convenient Store, a 2,000 square-foot Quick Service Restaurant, a four-pump vehicle canopy, a 10-pump semi-truck canopy, a CAT scale, and underground storage tanks, with associated parking and landscaping within the southern half of APN 411-210-024 (Figure 4). As the existing site is gently sloped with a ditch along the northern boundary and bisecting the northeast portion of the site, the project anticipates that cuts and fills during earthwork will be moderate to provide a level building pad and positive site drainage.

1.3 REGULATORY FRAMEWORK

Cultural resources are defined as buildings, sites, structures, or objects, each of which may have historical, architectural, archaeological, cultural, and/or scientific importance. Significant resources are those resources that have been found eligible to the California Register of Historical Resources (CRHR) or National Register of Historic Places (NRHP), as applicable.

1.3.1 National Historic Preservation Act

Federal regulations that would be applicable to the project (e.g., permitting) consist of the National Historic Preservation Act (NHPA) and its implementing regulations (16 United States Code 470 et seq., 36 Code of Federal Regulations [CFR] Part 800). Section 106 of the NHPA requires Federal agencies to take into account the effects of their undertakings on "historic properties", that is, properties (either historic or archaeological) that are eligible for the NRHP. To be eligible for the NRHP, a historic property must be significant at the local, state, or national level under one or more of the following four criteria:

A. associated with events that have made a significant contribution to the broad patterns of our history;

B. associated with the lives of persons significant in our past;

C. embodies the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; and/or

D. has yielded, or may be likely to yield, information important in prehistory or history.

1.3.2 California Environmental Quality Act (CEQA)

The CEQA, Public Resources Code (PRC) 21084.1, and California Code of Regulations (CCR) Title 14 Section 15064.5, address determining the significance of impacts to archaeological and historic resources and discuss significant cultural resources as "historical resources," which are defined as:

- resource(s) listed or determined eligible by the State Historical Resources Commission for listing in the CRHR (14 CCR Section 15064.5[a][1])

- resource(s) either listed in the NRHP or in a "local register of historical resources" or identified as significant in a historical resource survey meeting the requirements of Section 5024.1(g) of the PRC, unless "the preponderance of evidence demonstrates that it is not historically or culturally significant" (14 CCR Section 15064.5[a][2])

- resources determined by the Lead Agency to meet the criteria for listing on the CRHR (14 CCR Section 15064.5[a][3])

For listing in the CRHR, a historical resource must be significant at the local, state, or national level under one or more of the following four criteria:

1. It is associated with events that have made a significant contribution to the broad patterns of local or regional history, or the cultural heritage of California or the United States;

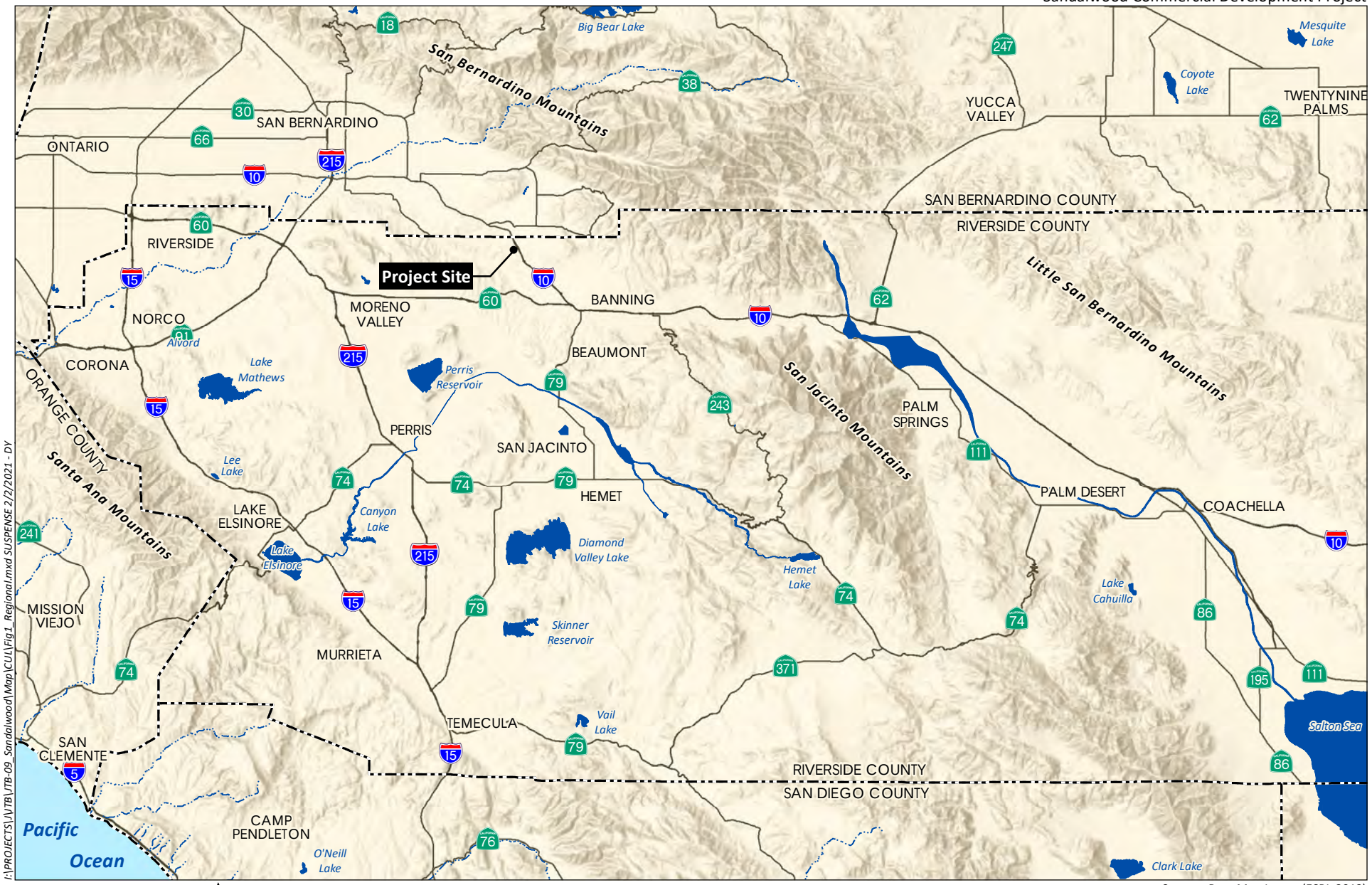
2. It is associated with the lives of persons important to local, California, or national history;

3. It embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of a master or possesses high artistic values;

4. It has yielded, or has the potential to yield, information important to the prehistory or history of the local area, California, or the nation.

Under 14 CCR Section 15064.5(a)(4), a resource may also be considered a "historical resource" for the purposes of CEQA at the discretion of the lead agency.

Significant resources must retain enough of their historic character or appearance to be recognizable as historical resources and to convey the reasons for their significance. Resource integrity, which is the authenticity of a historical resource's physical identity evidenced by the survival of characteristics that existed during the resource's period of significance, is evaluated with regard to the retention of location,



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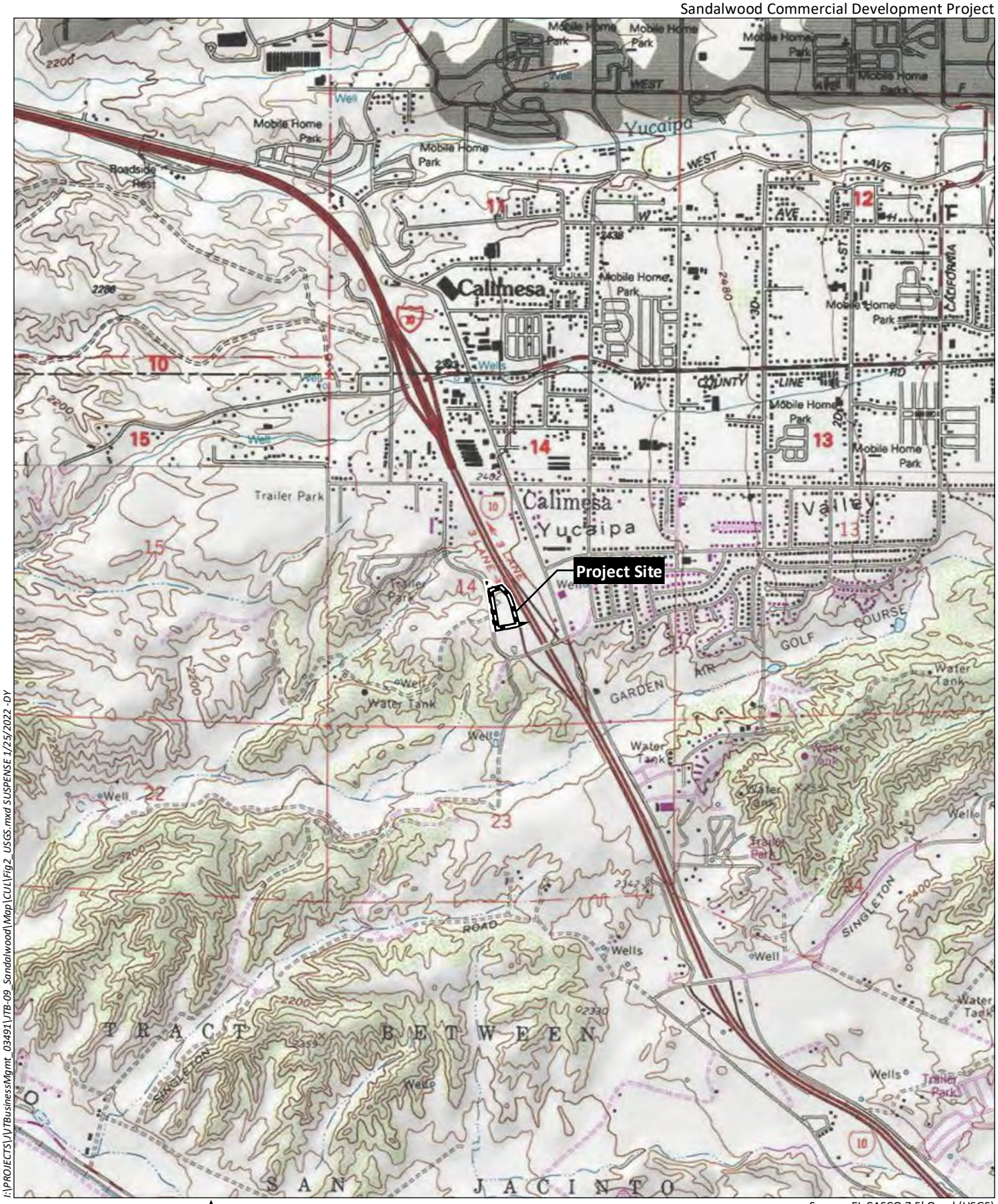
0 10 Miles

Source: Base Map Layers (ESRI, 2013)

HELIX Environmental Planning

Regional Location

Figure 1



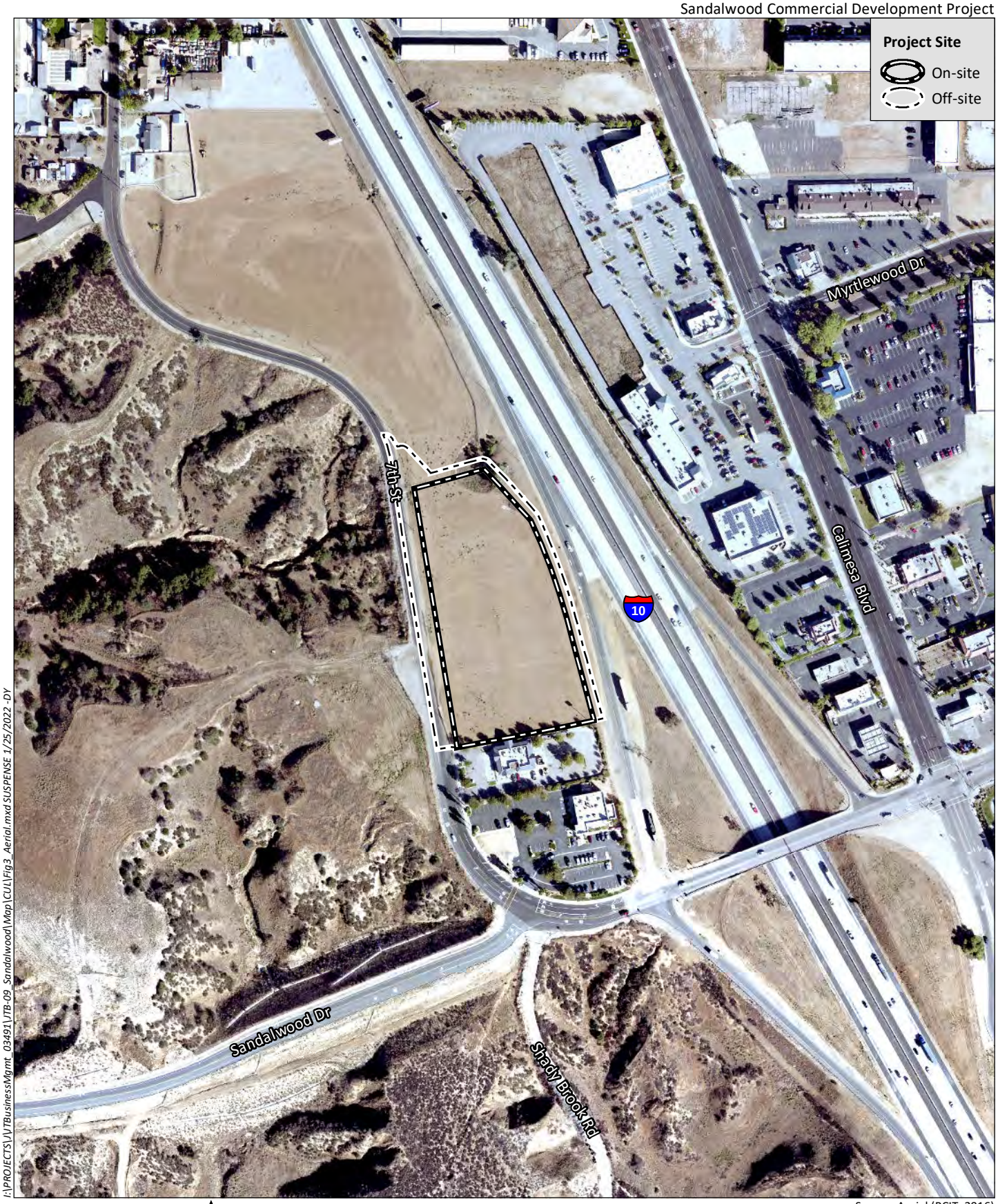
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Source: EL CASCO 7.5' Quad (USGS)

HELIX Environmental Planning

USGS Topography

Figure 2



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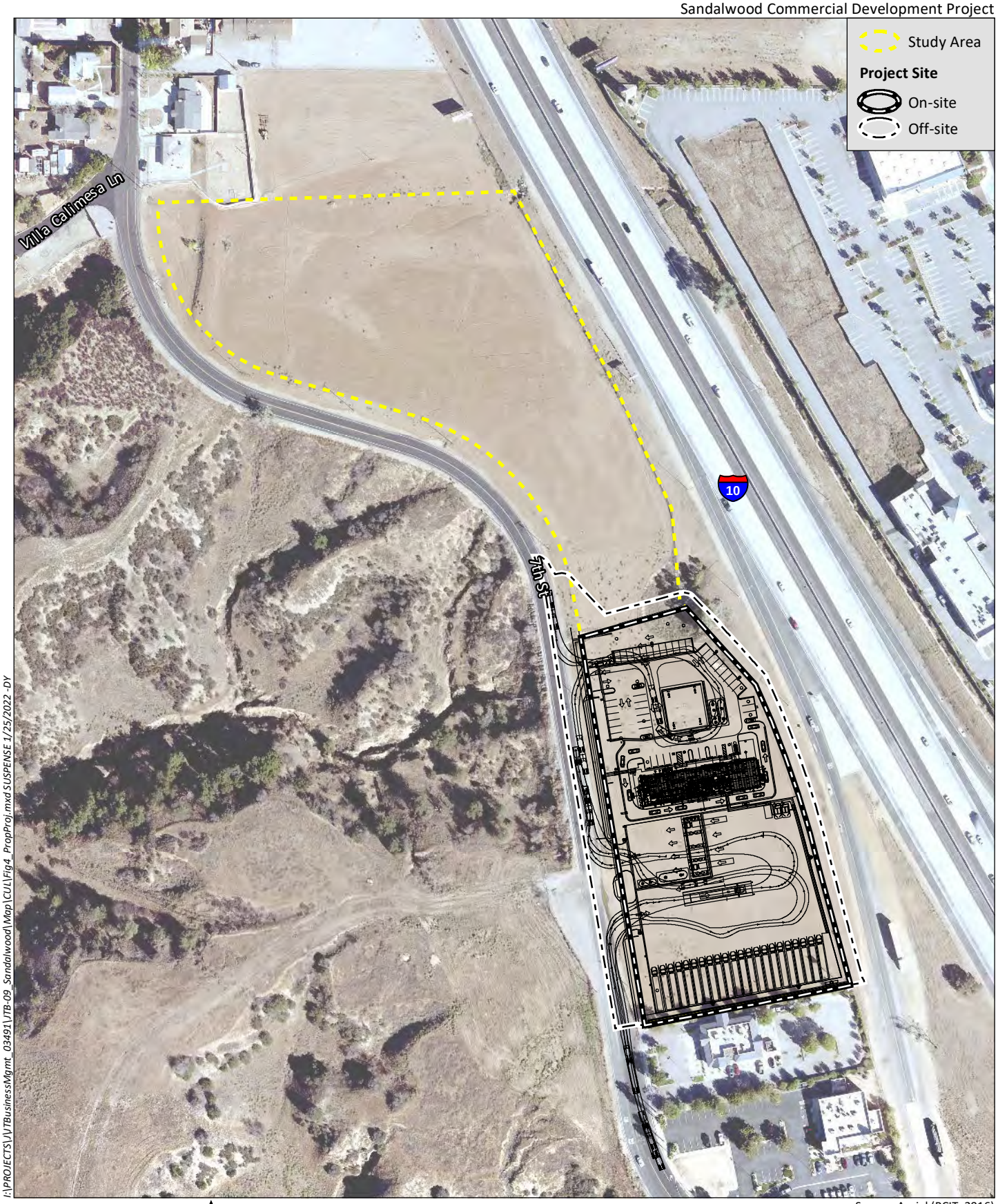
0 300 Feet

Source: Aerial (RCIT, 2016)

HELIX Environmental Planning

Aerial Photograph

Figure 3



I:\PROJECTS\JVTBusinessMgmt_03491\TB-09_Sandalwood\Map\CU1\Fig4_PropProj.mxd SUSPENSE 1/25/2022 -DY

0 200 Feet

Source: Aerial (RCIT, 2016)

HELIX Environmental Planning

Proposed Project

Figure 4

design, setting, materials, workmanship, feeling, and association. In an archaeological deposit, integrity is assessed with reference to the preservation of material constituents and their culturally and historically meaningful spatial relationships. A resource must also be judged with reference to the particular CRHR/NRHP criteria under which it is proposed for eligibility.

Under Section 106 of the NHPA, actions that alter any of the characteristics that qualify a property for eligibility for listing in the NRHP "in a manner that would diminish the integrity of the property's location, design, setting, materials, workmanship, feeling, or association" (36 CFR 800.5[a]) constitute an adverse effect to the historic property.

1.3.3 Calimesa

The City of Calimesa General Plan (2014) contains the following policies that are relevant to cultural resources. Policies designated as (MM) were specifically designed to provide mitigation for project-related impacts identified through the CEQA review process.

POLICY RM-16 Identify, protect, and preserve the historical and cultural resources of the city. (MM)

> ACTION ITEM RM-16.1: Increase public awareness of Calimesa's cultural heritage and resources through the development of education programs. (MM)
>
> ACTION ITEM RM-16.2: Require the preservation of identified cultural resources to the extent possible, through dedication, removal, transfer, reuse, or other means. (MM)
>
> ACTION ITEM RM-16.3: Review all proposed development for the possibility of cultural/archaeological/paleontological sensitivity. When existing information indicates that a site proposed for development may contain paleontological resources, a report stating the extent and potential significance of the resources that may exist within the proposed development shall be prepared and include mitigation measures as appropriate. (MM)
>
> ACTION ITEM RM-16.4: The City will work with the Native American community and others to adopt an appropriate process and procedure for the monitoring of excavation in cultural and paleontological sensitive areas and adopt a process for ensuring the appropriate curation of any cultural or paleontological resources discovered. (MM)

POLICY RM-17: Seek to protect significant historical sites or structures by offering programs and/or incentives to preserve, restore, or reuse the structures while maintaining their historical significance and integrity. (MM)

> ACTION ITEM RM-17.1: Identify opportunities for adaptive reuse of historic sites and buildings. (MM)

1.3.4 Native American Heritage Values

California State Assembly Bill (AB) 52 revised PRC Section 21074 to include Tribal Cultural Resources (TCRs) as an area of CEQA environmental impact analysis. As a general concept, a TCR is similar to the federally defined termed Traditional Cultural Properties (TCP); however, it incorporates consideration of local and state significance and required mitigation under CEQA. According to Patricia L. Parker and Thomas King (1998), "Traditional" in this context refers to those beliefs, customs, and practices of a

living community of people that have been passed down through the generations, usually orally or through practice. The traditional cultural significance of a historic property, then, is derived from the role the property plays in a community's historically rooted beliefs, customs, and practices.

Per PRC Section 21080.3, a CEQA lead agency must consult with any California Native American tribe that requests consultation and that is traditionally and culturally affiliated with the geographic area of a proposed project to identify resources of cultural or spiritual value to the tribe, even if such resources are already eligible as historical resources as a result of cultural resources studies. A TCR may be considered significant if it is (i) included in a local or state register of historical resources; (ii) determined by the lead agency to be significant pursuant to criteria set forth in PRC Section 5024.1; (iii) a geographically defined cultural landscape that meets one or more of these criteria; (iv) a historical resource described in PRC Section 21084.1 or a unique archaeological resource described in PRC Section 21083.2; or (v) a non-unique archaeological resource if it conforms with the above criteria.

1.4 PROJECT PERSONNEL

Stacie Wilson, M.S., RPA, served as principal investigator of this technical report. Ms. Wilson meets the qualifications of the Secretary of Interior's Standards and Guidelines for archaeology. Mary Robbins-Wade, M.A, RPA, provided overall project management support and senior technical review. Kassie Sugimoto, M.A., James Turner, M.A., RPA, and Theodore Cooley, M.A. RPA, served as the authors of this report. Julie Roy, B.A., directed the field survey and served as a report contributor. Kent Smolik, Allana O'Connor, Kassie Sugimoto, and Ricky Vallejos (HELIX), and Lerae Necochea (Native American monitor) from the Morongo Band of Mission Indians participated in the pedestrian survey. Resumes for key project personnel are presented in Appendix A.

2.0 PROJECT SETTING

2.1 NATURAL SETTING

The Project area is located in the Peninsular Ranges geomorphic province in the San Gorgonio Pass area between the San Jacinto Mountains to the southeast and the San Bernardino Mountains to the northwest, along the northeastern edge of the San Bernardino Valley (Hall 2007). The Project is situated at the crest and boundary of two watersheds, the upper reaches of San Timoteo Creek, a tributary in the Santa Ana River watershed the west, and the San Gorgonio River that empties into the Salton Basin in the Colorado Desert to the southeast. The project area is located along the north side of an unnamed drainage that is a tributary of San Timoteo Creek. Geologically, the project area and vicinity are underlain, principally, by middle Pleistocene, old axial channel sedimentary deposits consisting of gray, unconsolidated to indurated gravel, sand, and silt (Morton 2004:9). In areas immediately adjacent to the west, are sedimentary deposits referred to as the upper member of the "San Timoteo beds of Frick (1921)", consisting of Pliocene and Pleistocene, nonmarine, sometimes fossiliferous, gray, coarse-grained, moderately indurated, interbedded sandstone, and conglomerate that erodes to form sharp-ridged badlands topography (Morton 2004: 12). To the north and east are fine- to coarse-grained, Mesozoic age mylonitic and cataclastic granitic rocks, including cataclastic granodiorite, tonalite, and quartz diorite (Morton 2004:33). Two soil series are represented in the project area: the Ramona very fine sandy loam, 0 to 8 percent slopes, present in approximately 55 percent of the project area; and the San Timoteo loam, 25 to 50 percent slopes in the remainder (Web Soil Survey USDA 2021).

While little native vegetation is present in the project location today, the vegetation in the prehistoric era likely consisted of a mixture of chamise chaparral and coastal sage scrub vegetation, within and on the surrounding hills and ravines, with riparian and/or oak woodland plants along portions of the adjacent unnamed drainage, and nearby Yucaipa Creek and San Timoteo Creek. The chaparral community contains, principally, chamise (*Adenostoma fasiculatum*), along with hoaryleaf ceanothus (*Ceanothus crassifolius*), laurel sumac (*Malosma laurina*), black sage *(Salvia mellifera*), and Cleveland sage (S*. clevelandii)* (Head 1972). This community, along with the coastal sage scrub community, with plants such as California sagebrush (*Artemisia californica*), white sage *(Salvia apiana*), flat-top buckwheat (*Eriogonum fasiculatum*), broom baccharis (*Baccharis sarothroides*), wild onion (*Allium haematochiton*), laurel sumac (*Malosma laurina*), San Diego sunflower (*Viguiera laciniata*), golden-yarrow (*Eriophyllum confertiflorum*), sawtooth goldenbush (*Hazardia squarrosa*), yucca (*Yucca schidigera*, *Y. whipplei*), prickly pear cactus (*Opuntia occidentalis*), and scrub oak (*Quercus dumosa*), would have covered most of the hill and mountain areas with interspersed areas of native grasslands (*Stipa, Elymus, Poa, Muhlenbergia*) (Hall 2007; Munz 1974). Prior to historic and modern activities, larger drainages such as the San Timoteo Creek and Yucaipa Creek likely contained substantial stands of the riparian and/or oak woodland community with plants such as sycamore (*Platanus racemosa*), Fremont cottonwood (*Populus fremontii*), coast live oak (*Quercus agrifolia*), willow (*Salix* sp.), and poison oak (*Toxicodendron diversilobum*) (Munz 1974; Hall 2007). Many of the native plant species found in these vegetation communities and those found in the project vicinity are known to have been used by native populations for food, medicine, tools, and ceremonial and other uses (Barrows 1900; Bean 1972, 1978, Bean and Smith 1978; Bean and Siva Saubel 1972; Hedges and Beresford 1986). Major wildlife species found in this environment, prehistorically, were mule deer (*Odocoileus hemionus*), mountain sheep (*Ovis canadensis*), antelope (*Antilocapra americana*), coyote (*Canis latrans*), grizzly bear (*Ursus arctos*), mountain lion (*Felis concolor*), rabbit (*Sylvilagus audubonii*), and jackrabbit (*Lepus californicus*); reptiles such as western pond turtle (*Actinemys marmorata*), southern pacific diamondback rattlesnake (*Crotalus oreganus helleri*), gopher snake (*Pituophis melanoleucus catenifer*), and various rodents, the most notable of which are the valley pocket gopher (*Thomomys bottae*), California ground squirrel (*Otospermophilus beecheyi*), and dusky footed woodrat (*Neotoma fuscipes*) (Burt and Grossenheider 1976; Head 1972; Stebbins 1966). Rabbits, jackrabbits, and rodents were very important to the prehistoric diet; deer and mountain sheep, and, also, prehistorically, antelope) were significant for food, and were an important source of leather, bone, and antler (Bean 1972, 1978; Bean and Smith 1978).

2.2 CULTURAL SETTING

2.2.1 Prehistoric Period

2.2.1.1 Introduction

The Project is located approximately 1.25 miles south of Yucaipa Creek and 2.0 miles northeast of San Timoteo Creek in the San Gorgonio Pass area of northwesternmost Riverside County, California. Moratto (1984) has previously defined eight archaeological regions and 16 subregions for California. The location of the Project places it within the boundary of the San Diego subregion of the Southern Coast Region, but it is also located adjacent to the boundary with the Colorado River subregion of the Desert Region (Moratto 1984: 148, Figure 4.13). The following culture history outlines and briefly describes the known prehistoric cultural Traditions and chronology of archaeological sites in the vicinity of the Project. The approximately 10,000 years of documented prehistory of the region has often been divided into three periods: Early Prehistoric Period (San Dieguito Tradition [Warren 1968], Fluted Point Tradition [Moratto

1984]); Archaic Period (Milling Stone Horizon [Wallace 1955], Encinitas Tradition [Warren 1968]); and Late Prehistoric Period.

Prior to 1984, when Moratto defined the San Diego subregion, little archaeological investigation had occurred in the western Riverside and San Bernardino counties portion of this subregion. This paucity of archaeological information limited the ability of early researchers to assess the cultural and temporal associations for the archaeological resources in this part of the subregion. One of the few early studies to occur in this area prior to 1984 was conducted near Temecula in the early 1950s at a site identified as the ethnohistoric village of *Temeku* (McCown 1955). The investigation produced a substantial, primarily Late Prehistoric Period, artifact assemblage, but with some possible late Archaic materials as well. Another study, conducted in the 1970s, for the construction of the Perris Reservoir (O'Connell et al. 1974, eds.), consisted of investigations at several sites and was, perhaps, the most extensive study conducted in the area prior to 1984. The results, which included several radiocarbon dates, indicated a predominance of occupation at the sites during the Late Prehistoric Period, after A.D. 1500, but with some limited evidence for occupation as early 380 B.C. (Bettinger 1974:159-162). During the last approximately 35 years since 1984, several archaeological studies have occurred in western Riverside County and have served to substantially augment the archaeological record for the area (e.g., Applied Earth Works, Inc. 2001; Grenda 1997; Horne and McDougall 2008; Keller and McCarthy 1989; McCarthy 1986, 1987). Based on the information provided by these and other subsequent studies in the area, Sutton and Gardner (2010) and others have recently begun to define the early prehistory of this area of the San Diego subregion and how it fits in with the previously better-known areas of the subregion. The three chronological periods defined for the prehistory of the San Diego subregion are described below.

2.2.1.2 Early Prehistoric Period

The Early Prehistoric Period represents the time of the entrance of the first known human inhabitants into California. In some areas of California, it is referred to as the Paleo-Indian period, and is associated with the Big-Game-Hunting activities of the peoples of the last Ice Age occurring during the Terminal Pleistocene (pre-10,000 years ago) and the Early Holocene (beginning circa 10,000 years ago) (Erlandson 1994, 1997; Erlandson et al. 2007). In the western United States, the most substantial evidence for the Paleo-Indian or Big-Game-Hunting peoples derives from finds of large fluted spear and projectile points (Fluted-Point Tradition) at sites in places such as Clovis and Folsom in the Great Basin and the Desert southwest (Moratto 1984:79–88). In California, most of the evidence for the Fluted-Point Tradition derives principally from areas along the western margins of the Great Basin, including the eastern Sierras and the Mojave Desert, and in the southern Central Valley (Dillon 2002; Rondeau et al. 2007). Elsewhere in California, with the exception of site CA-LAK-36 in the north coast ranges in northwestern California, only isolated occurrences of fluted spear points have occurred, scattered around the state (Dillon 2002; Rondeau et al. 2007). These isolated occurrences have, however, included two fluted points or fluted point fragments recently discovered in the mountains of northern San Diego County approximately 51 miles to the south of the Project area (Kline and Kline 2007), and another along the coast approximately 52 miles to the west of the Project area in adjacent Orange County (Fitzgerald and Rondeau 2012). Two examples have also been discovered to the south in Baja California (Des Lauriers 2008; Hyland and Gutierrez 1995). Despite these isolated occurrences of fluted points in the San Diego subregion and Baja California, none have been found, to date, in the western areas of Riverside or San Bernardino counties area (Dillon 2002; Rondeau et al. 2007).

The earliest sites in the San Diego subregion, documented to be nearly 10,000 years old, belong to the San Dieguito Tradition (Warren et al. 1998; Warren and Ore 2011). The San Dieguito Tradition, with an

artifact assemblage distinct from that of the Fluted Point Tradition, has been documented mostly in the coastal and near coastal areas in San Diego County (Warren and True 1961; Rogers 1966; Warren 1966; True and Bouey 1990; Carrico et al. 1993) as well as in the southeastern California deserts (Rogers 1939; 1966; Warren 1967). The content of the earliest components of the C.W. Harris Site (CA-SDI-149), located along the San Dieguito River and approximately 68 miles to the south of the Project, formed the basis upon which Warren and others (Rogers 1966; Warren and True 1961; Warren 1966, 1967) identified the "San Dieguito complex," which Warren later reclassified as the San Dieguito Tradition (1968). This Tradition is characterized by an artifact inventory consisting almost entirely of flaked stone biface and scraping tools, but lacking the fluted points associated with the Fluted-Point Tradition. Diagnostic artifact types and categories associated with the San Dieguito Tradition include elongated bifacial knives; scraping tools; crescentics; and Silver Lake, Lake Mojave, and leaf-shaped projectile points (Knell and Becker 2017; Rogers 1939, 1966; Vaughan 1982; Warren 1966, 1967; Warren and True 1961). Some researchers interpret the San Dieguito Tradition/complex as having a primarily, but not exclusively, hunting subsistence orientation, but sufficiently hunting oriented as to be distinct from the more gathering-oriented complexes of traits that were to follow in the Archaic Period (Warren 1968; Warren et al. 1998). Other researchers see the San Dieguito subsistence system as less focused on hunting, and more diversified, and, therefore, possibly ancestral to, or a developmental stage for, the subsequent, predominantly gathering oriented, Encinitas Tradition, denoted in the San Diego area as the "La Jolla/Pauma complex" (True 1958, 1980) during the Archaic Period (cf. Bull 1983; Ezell 1987; Gallegos 1985, 1987, 1991; Koerper et al. 1991). While little definite evidence for the San Dieguito Tradition has been discovered in other coastal and near-coastal areas of southern California outside of San Diego County, some evidence has been recently been attributed to it in the eastern Mountains of San Diego County (Pigniolo 2005), and possibly in a coastal area approximately 53 miles to the west in Los Angeles County (Sutton and Grenda 2012).

2.2.1.3 Archaic Period

During the subsequent Archaic Period, artifact assemblages of the Milling Stone Horizon/Encinitas Tradition occur at a range of coastal and adjacent inland sites, and, in contrast to those of the previous Early Prehistoric Period, are relatively common in the study area region. These assemblages appear to indicate that a relatively stable, sedentary, predominantly gathering complex, possibly associated with one people, was present in the coastal and immediately inland areas of southern California for many millennia. Warren proposed that during the Archaic Period in the south coastal region, the Encinitas Tradition began circa 8,500 years ago and extended essentially unchanged until circa 1,500 years ago (Warren 1968; Warren et al. 1998). More recently, however, several sites in the southern California area have produced Milling Stone Horizon/Encinitas Tradition assemblages with radiocarbon dating in excess of 9,000 years ago (Horne and McDougall 2008; McDougall 2001). Consequently, the earliest extent of the Archaic Period in the area is still in the process of being determined.

Subsequent to the Early Archaic, beginning circa 4,800 years ago and continuing to as late as 1,300 years ago, a cultural assemblage, variously described as the Intermediate Horizon (Wallace 1955) or Campbell Tradition (Warren 1968), has been delineated and distinguished, following the Milling Stone Horizon/Encinitas Tradition. This assemblage, initially occurring somewhere north of San Diego and extending to Santa Barbara, is distinguished from earlier Archaic assemblages by the presence of large projectile points and milling tools such as the mortar and pestle. While still a matter of some debate, Warren and others (1998) have subsequently termed the time period encompassing the extent of the Intermediate/Campbell cultural assemblage in the southernmost coastal region as the Final Archaic Period.

In the western Riverside and San Bernardino counties area, Sutton and Gardner have identified Early Archaic Period assemblages at sites near Yucaipa, Fontana, and in the Prado Basin area (2010:26). Site CA-SBR-5096, located along the Santa Ana River in the Prado Basin area, has produced "manos and metates, a pinto point and an unknown number of cogged stones and discoidals" (Sutton and Gardner 2010:26). In the vicinity of the project area, site CA-SBR-1000 in the Yucaipa area contained an Early Archaic component consisting of many manos and metates but no mortars or pestles, numerous projectile points (including Pinto points), a few discoidals and cogged stones, and a flexed inhumation (Kowta 1969; Sutton and Gardner 2010:26). Archaeological studies conducted at several sites in Perris Valley for the Perris Reservoir project, approximately 11 miles to the southwest of the study area, produced a single radiocarbon date within the Archaic Period of circa 2200 years before present (B.P.) as well as a few diagnostic artifacts as the only evidence for a Late Archaic Period occupation at the sites (Bettinger 1974:159-162). Investigations at another site, CA-RIV-1806, in the mountains northwest of Temecula, also produced a radiocarbon date for the Late Archaic Period of circa 2775 B.P. (McCarthy 1986:73). More recently, large-scale archaeological investigations have been conducted in western Riverside County for the Eastside Reservoir (since renamed Diamond Valley Lake) Project, located approximately 21 miles south of the study area. This project involved reservoir construction within the adjacent Domenigoni and Diamond valleys (Robinson 2001; Goldberg 2001). Based on the results from this project, the researchers developed a local chronology specific to the Domenigoni and Diamond valleys based on projectile point style changes and associated radiocarbon dates (Robinson 2001). The terminology in this chronology resembles that already presented above by Warren et al. (1998) with the period from 9,500 to 7,000 years ago designated as the Early Archaic period, the period from 7,000 to 4,000 years ago as the Middle Archaic, and the period from 4,000 to 1,500 years ago as the Late Archaic. Only two components could be firmly dated to the Early Archaic at the reservoir sites, but sparse evidence of Early Archaic activity was noted in six other localities. One site (CA-RIV-5086) did, however, produce two radiocarbon dates of 9190±50 and 9310±60 B.P. (McDougall 2001). For the Middle Archaic, firm evidence was documented in 14 locations, with traces at four other sites. During the Late Archaic, a profusion of activity and occupation was evident, with 23 firmly dated site components and sparse evidence at eight other localities (Goldberg 2001:524).

Two other archaeological investigations conducted in the western Riverside County area have also produced evidence, based on radiocarbon dating, for prehistoric occupation during the earliest part of the Archaic Period. One of these investigations was conducted at archaeological site CA-RIV-2798, located approximately 28 miles to the southwest of the study area along the old shoreline of Lake Elsinore, a natural lake situated in a fault-created basin, whose principal source of water in prehistoric times was the San Jacinto River (Grenda 1997:3). The investigations produced results, including radiocarbon dating, that indicated occupation of the site as early as 8,500 years ago (Grenda 1997). Another investigation located inland, along the San Jacinto River, approximately 19 miles from Lake Elsinore, and approximately 11 miles south of the study area, produced results, including radiocarbon dating, indicating an early Archaic Period occupation, dating to circa 9,400 years ago (Horne and McDougall 2008). The early assemblages at these sites appeared to be consistent with Milling Stone Horizon/Encinitas Tradition content with milling and primarily (but not exclusively) gathering tools present. Thus, prehistoric occupation during the Archaic Period, in areas of western Riverside County and in the study area vicinity, is now documented to have occurred, beginning possibly as early as 9,400 years ago, and remained present to the end of the period, approximately 1,500 years ago.

This new evidence has prompted Sutton and Gardner (2010) to recently propose a reconceptualization of Warren's Archaic Period, Encinitas Tradition, including presenting a new pattern for the western Riverside and San Bernardino counties area, coexistent with the coastal Topanga complex/pattern in the

Los Angeles Basin area and La Jolla complex/pattern in the San Diego area. The authors termed this pattern the Greven Knoll pattern, based on a site with that name, CA-SBR-1000, containing an Archaic Period assemblage, located near the Project in the Yucaipa area (2010:26). This site was originally labeled as the Greven Knoll Site by Kowta (1969), and Kowta indicated that this term could also be used to represent the early inland Milling Stone Horizon in the area (Kowta 1969: Figure 5). The authors, therefore, chose to apply this designation for all of the inland Milling Stone Horizon/Encinitas Tradition patterns in the area but divided it into three phases labeled Greven Knoll I (early), Greven Knoll II, and Greven Knoll III. While this chronologic terminology essentially corresponds to the Early, Middle, and Late Archaic Period chronology defined by Robinson (2001), Sutton and Gardner have incorporated additional site data from a broader range of inland sites in the western Riverside and San Bernardino counties area, and have integrated the results into Warren's original (1968) more coastal based, Encinitas Tradition concept of a relatively stable, sedentary, predominantly gathering complex, possibly associated with one people.

2.2.1.4 Late Prehistoric Period

The beginning of the Late Prehistoric Period, circa 1,500 years ago, is seen as time-marked by a number of rather abrupt changes. The magnitude of these changes, and the short period of time within which they took place, are reflected in significant alteration of previous subsistence practices and the adoption of significant new technologies. As discussed further below, some of these changes may have been a result of significant variations in the climatic conditions. Subsistence and technological changes that occurred include a shift from hunting using atlatl and dart to the bow and arrow; a de-emphasizing of shellfish gathering along some areas of the coast (possibly due to silting-in of the coastal lagoons); and an increase in the storage of crops, such as acorns and pinyon nuts, by both Uto-Aztecan and Yuman peoples. Other new traits introduced during the Late Prehistoric Period include the production of pottery and cremation of the dead, and, locally, in the western Riverside County area, a shift in settlement pattern is apparent (cf. Wilke 1974).

This shift in settlement is first noted during the early part of the period from 1,500 to 750 years ago and is evidenced, locally, in the results from the Eastside Reservoir (Diamond Lake) Project by a rather sudden decline in occupation in the local area during the initial part of the period. This 750-year period was termed by the Eastside Reservoir researchers as the Saratoga Springs Period, following Warren's (1984) desert terminology. This period can also be seen to partially coincide with a warm and arid period known as the Medieval Warm Period, documented to have occurred between approximately 1,100 and 600 years ago (Jones et al. 1999; Kennett and Kennett 2000; Stine 1994). During this period, at least two episodes of severe drought have also been demonstrated, the first between 1060 and 840 cal B.P. and the second between 740 and 650 cal B.P. (Goldberg 2001; Stine 1994). While sites dating to this period are not absent in western Riverside County (e.g., McCarthy 1987:34; Keller and McCarthy 1989), Goldberg (2001) hypothesized that the Medieval Warm Period could account for the decline in sites occurring in the Eastside Reservoir Project area during the Saratoga Springs Period (1500 to 750 B.P.), claiming that desert and inland areas of western Riverside County, such as where the Eastside Reservoir Project and the current study area are located, would no longer be suitable to support residential bases. Goldberg (2001) further hypothesized that settlements would possibly be clustered at more suitable water sources during this time, such as at the coast, Lake Cahuilla, or Lake Elsinore (cf. Wilke 1974; 1978). While a decline was noted during the initial part of the Saratoga Springs Period, subsequently, during the latter part of the period, during the time of the Medieval Warm Period, a reoccupation began to occur (Goldberg 2001:578). According to Goldberg "When components dating to the Medieval Warm segment of the Saratoga Springs Period are segregated and combined with Medieval Warm components

from the Late Prehistoric Period, it shows that the frequency of refuse deposits and artifact and toolstone caches during the Medieval Warm is slightly higher than during the Late Archaic and much higher than during the later portion of the Late Prehistoric Period..." (2001:578).

In the Eastside Reservoir Project, the Late Prehistoric Period was defined as extending from the end of the Saratoga Springs Period (750 B.P.) to 410 B.P. A subsequent Protohistoric Period was also defined as extending from 410 to 150 B.P. The Late Prehistoric (750 to 410 B.P.) was characterized by the presence of Cottonwood points, although research indicated that Cottonwood points had begun to appear in the Eastside Reservoir Project study area as early as 950 B.P., ceramics and abundant obsidian began to appear around the time of the Cabrillo exploration in A.D. 1542 and so this date (i.e., circa 410 B.P.), until the establishment of the mission system in the late 1700s, was defined as the Protohistoric Period (Robinson 2001). It should also be noted that the end of the Saratoga Springs Period and the beginning of the Late Prehistoric Period, 750 B.P., also coincides with the onset of the Little Ice Age, generally dated from 750 to 150 B.P. (Goldberg 2001; Sutton et al. 2007). During this period, the climate was cooler and moister, and the sites identified within the Eastside Reservoir Project study area reflected a substantial increase in number and diversity, longer occupation periods, and more sedentary land use. Similar intensification of land use also occurred during this time in neighboring San Gorgonio Pass (Bean et al. 1991) and Perris Valley (Wilke 1974).

Differing from the terminology used in the Eastside Reservoir study, the Late Prehistoric Period has been more commonly described, archaeologically, in the northern San Diego County and the western portion of Riverside County, as the San Luis Rey (SLR) complex. As originally defined by Meighan (1954), the SLR complex is associated with the ethnographic Luiseño, who were present in the area at the time of the first contact with Europeans. Meighan saw the complex as occurring in two phases: SLR I and SLR II, with the principal archaeological element distinguishing the two phases being the absence of pottery in SLR I sites and its presence in SLR II assemblages. The introduction of pottery was seen as having disseminated to the prehistoric Luiseño from their neighbors, the Kumeyaay, to the south (Rogers 1936; Meighan 1954:221). Elements of the SLR I phase include small, triangular, pressure-flaked projectile points (generally Cottonwood series with Desert Side-notched series points rarely occurring); milling implements, including mortars and pestles, manos and metates, and bedrock milling features; bone awls; Olivella shell beads; other stone and shell ornaments; and cremations (Meighan 1954; Moratto 1984; True et al. 1974; Pigniolo 2004). In addition to pottery, the later SLR II assemblages include several other elements not found in SLR I assemblages: "cremation urns, red and black pictographs, and such nonaboriginal items as metal knives and glass beads" (Meighan 1954:223). SLR I was originally thought by Meighan to date from A.D. 1400 to A.D. 1750, with SLR II dating between A.D. 1750 and A.D. 1850 (Meighan 1954:223). This chronology was subsequently revised, however, by True and others, who suggested that, while "some pottery probably filtered across from Diegueño [Kumeyaay] territory perhaps as early as A.D. 1200-1300 under some circumstances, ...the introduction of pottery as a regular and important element in the San Luis Rey lifeway probably did not take place until a century or two before the arrival of the Spanish (perhaps A.D. 1500-1600)" (True et al. 1974:97). It is of interest to note, regarding the origin of pottery with the Cahuilla, that rather than them having acquired it from either the Kumeyaay or their Takic neighbors, the Luiseño, Bean and Lawton (1992:5) state that "Cahuilla pottery was probably borrowed from the Colorado River Indians to the east at a relatively late date". In regard to the Serrano, Johnston (1980:7) states that they were "prolific" pottery makers and indicates that some Serrano wares (e.g., black-on-buff ware) occurred in Serrano territory more commonly in proximity to Cahuilla territory, probably indicating "intermingling of technique and design because it is also found among Cahuilla ware" suggesting an exchange of the ceramic technology between the groups.

2.2.2 Ethnohistory

While Kroeber (1925:Plate 57), indicates the study area as located at the boundary of the territories of two Native American tribal peoples, the Cahuilla and the Serrano, Bean (1978) indicates the location to be well within Cahuilla territory. Both tribal groups are of the Takic family of the Uto-Aztecan stock (Shipley 1978; Miller 1984). These Takic-language-speaking groups are thought to represent a migration into the area occurring approximately 1,500 B.P. (Schaefer 2006:21). While, due to a lack of data at the time of European contact, the boundaries of Serrano territory are not well-defined (Bean and Smith 1978). Based on what is known, they occupied the San Bernardino Mountains east of the Cajon Pass, north to Victorville, east to Twentynine Palms, and south to the Yucaipa Valley (Bean and Smith 1978:570). The Cahuilla territory included a portion of the southern San Bernardino Mountains, as well as portions of the San Jacinto and Santa Rosa Mountains, and extended into the desert and the Coachella Valley in the northern part of the Salton Basin. The names for the Cahuilla and Serrano, are both likely of Spanish origin. "Serrano" in Spanish equates to "mountaineer" or "highlander" (Kroeber 1925; Bean and Smith 1978:570). According to Strong (1929:36), "The derivation of the term Cahuilla is obscure, and it is regarded by the Indians to be of Spanish origin." It has been suggested that it possibly derives from their own word *Káwiya*, which translates as 'master or boss' (Bean 1978:575; Kroeber 1925:693). While the first Spanish contact with the Serrano is indefinite, the earliest Spanish contact with the Cahuilla may have been with the Anza expedition trips in 1774 and 1777. The route followed San Felipe Creek west through Borrego Springs, up into the San Jacinto Mountains (Pourade 1962:164; Schaefer 2006:23).

The diversity of Cahuilla territory reflected the range of environmental habitats in inland Southern California. Topographically, their territory ranged from the summit of the southern San Bernardino Mountains, in excess of 11,000 feet, to the Coachella Valley and Salton Sink, well below sea level. Ecological habitats included the full range of mountains, valleys, passes, foothills, and desert areas. Villages were typically situated in canyons or on alluvial fans near water and food resources, and a village's lineage owned the immediately surrounding land (Bean 1978). Well-developed trails were used for hunting and traveling to other villages. Village houses ranged from brush shelters to large huts 15 to 20 feet long. Important plant foods exploited from the Cahuilla's diverse habitat included mesquite and screw beans, piñon nuts, and various cacti. Other important plant foods included acorns (six oak varieties), various seeds, wild fruits and berries, tubers, roots, and greens. Women were instrumental in the collection and preparation of vegetal foods. The material culture of the Cahuilla included implements such as baskets and pottery, bow and arrows, awls, arrow shaft straighteners, bags and storage pouches, stone pipes, musical instruments, nets, and costumes were made of plant fibers, stone materials, wood, bone, and shell (Bean 1978).

The Cahuilla recognized two nonpolitical and nonterritorial moieties: The wildcats (*túktem*) and coyotes (*ʔístam*) (Bean 1978:580); *tukut* and *isil* (Gifford 1918:186). The moieties were exogamous - marriage took place to a person of the opposite moiety and patrilocal with patrilinear lines of descent, with the woman going to live with the husband but remaining a member of the moiety into which she was born. The moieties were divided into numerous localized political-religious clans (often referred to as localized groups, kins, bands, or sibs), with the name of the clans frequently translated as "living at 'such a place'" (Bean 1972; Gifford 1918). Clans were autonomous from one another and commonly owned well-defined territories.

When Lake Cahuilla was present, it undoubtedly affected the settlement and subsistence patterns, with the desert area becoming a more productive resource area. Schaefer (2006:22) states that "Cahuilla

mythology and oral tradition also indicate that when Lake Cahuilla dried up, it was the mountain people who resettled the desert floor. The time of Lake Cahuilla is also best documented in the oral traditions of the Cahuilla, both with regard to settlement patterns, song cycles, and the effects of Lake Cahuilla on patrilineal clan segmentation."

The impact of the Spanish mission system and colonization along the coast was much less immediate and profound within the isolated desert and mountain groups. It was not until 1819, after the establishment of the San Bernardino estancia and cattle ranch at San Gorgonio, that a more direct Spanish influence was felt. During the Spanish period and into the Mexican period, political leadership became more centralized, as Juan Antonio from the Mountain Cahuilla and Chief Cabazon in the desert emerged as central figures (Strong 1929). Juan Antonio's group played a significant role during the Mexican-American War, siding with the Mexicans against the Luiseño who supported the American invasion (Phillips 1975). Along with the rise of powerful chiefs and political restructuring, Mexican language, clothing, and food were incorporated into traditional culture during this era.

With the 1848 signing of the Treaty of Guadalupe Hidalgo, the American government promised to preserve the liberty and property of the inhabitants of California, and in 1852, a treaty was drafted to settle land rights issues for the Cahuilla (as well as Serrano and Luiseño). The treaty was never ratified by Congress and the best farming and grazing lands were claimed by Euro-American settlers. In addition, Cahuilla land was substantially reduced during the 1860s and 1870s, primarily as a result of two Executive Orders establishing reservations. The result of this was a checkerboard of 48 sections of reservation lands spread across the eastern edge of the Santa Rosa and San Jacinto mountains and the Coachella Valley (CSRI 1983). Although various modifications have occurred over time, this has remained the permanent home of the Cahuilla to date.

Because the San Bernardino Mountains were the central home of the Serrano, villages were primarily located in the forest; however, many were located in the foothills and a few on the desert floor (Strong 1929; Bean and Smith 1978). The primary factor for village choice was proximity to a year-round water source (Bean and Smith 1978:571). Like the Cahuilla, the Serrano subsisted by hunting and gathering practices, making use of resources available in the natural environment. As with the Cahuilla, the Serrano had access to several diverse resource areas, including montane, foothill, and desert habitats. Foothill areas and desert locales provided vegetal resources, such as mesquite and screw beans, piñon nuts, yucca, and various cacti. Other important plant foods included acorns; various seeds, particularly chia (*Salvia columbariae*); wild fruits and berries; tubers, roots; and greens. Women were instrumental in the collection and preparation of vegetal foods, while men were responsible for the hunting of game. Principal game animals included deer, mountain sheep, antelope, rabbits, rodents, and quail. Larger game were obtained using bow and arrow with traps, snares, throwing sticks, and deadfalls were used to procure smaller game and birds (Bean and Smith 1978:571). According to Bean and Smith, the material culture of the Serrano was similar to their neighboring tribes, in particular, that of the Cahuilla, and included implements such as baskets and pottery, bow and arrows, awls, arrow shaft straighteners, bags and storage pouches, stone pipes, musical instruments, nets, and costumes were made of plant fibers, stone materials, wood, bone, and shell (1978).

The Serrano social organization and cosmology were largely the same as their neighbors the Cahuilla, with the social organization consisting of exogamous moieties, patrilineal clans, and ceremonial exchange parties. As with the Cahuilla, the Serrano recognized two nonpolitical and nonterritorial moieties: The wildcats (*tukʷutam*) and coyotes (*wahiʔiam*) (Bean and Smith 1978:572); *tukum* and *wahilyam* (Gifford 1918:178). The moieties were exogamous—marriage took place to a person of the

opposite moiety—and patrilocal with patrilineal lines of descent, with the woman going to live with the husband but remaining a member of the moiety into which she was born. The moieties were divided into numerous localized political-religious clans (often referred to as localized groups, kins, bands, or sibs), with the name of the clans being associated with a particular location or place. Clans were autonomous from one another and commonly owned well-defined territories (Bean 1972; Bean et al. 1991; Gifford 1918).

Both ethnographic sources (Bean 1978; Bean and Smith 1978), as well as archaeologists (Koerper et al. 2002:64; True 1990), have indicated that water sources, such as larger drainages and springs, were the major determinants for the location of prehistoric settlement. In the vicinity of the study area, Kroeber identifies three ethnohistoric villages, one to the north, along Yucaipa Creek, the village of *Yukai-pa-t* (Yucaipa); another to the south, the village of *Aka-va-t*, along the upper reaches of San Timoteo Creek; and the third to the west, along San Timoteo Creek, the village of *Tokloka-bi* (Kroeber 1925:Plate 57). Kroeber indicates that the villages of *Yukai-pa-t* and *Tokloka-bi* were Serrano villages, and, while he plots the village of *Aka-va-t* in Cahuilla territory (1925:Plate 57), he indicates that Serrano also lived there (1925: 617). The village of *Yukai-pa-t (Yukaipa't, Yucaipa)* has been associated by some archaeologists with the archaeological site CA-SBR-1000 (Sutton and Gardner 2010:26).

2.2.3 Historical Background

2.2.3.1 Spanish Period

The beginning of the historic period in southern California is generally given as 1769. In the mid-eighteenth century, Spain had escalated its involvement in Las Californias from exploration to colonization (Weber 1992), and in that year, a Spanish expedition headed by Gaspar de Portolá and Junípero Serra established the Royal Presidio of San Diego. Portolá then traveled north from San Diego, seeking suitable locations to establish military presidios and religious missions in order to extend the Spanish Empire into Alta California.

The first Spaniard to visit what is now Riverside County was Don Pedro Fages, the commander at the San Diego presidio, in 1772. In the pursuit of deserted soldiers, Fages traveled from San Diego east to the desert in Imperial County, then northwest through the San Jacinto Mountains and the San Jacinto Valley towards Riverside (Lech 2004). However, the first documented Spanish contact in what is now Riverside County was by Spanish military captain Juan Bautista de Anza, who led expeditions in 1774 and 1775 from Sonora to Monterey (Bolton 1930). Anza embarked on the initial expedition to explore a land route northward through California from Sonora, with the second expedition bringing settlers across the land route to strengthen the colonization of San Francisco (Rolle 1963). Anza's route led from the San Jacinto Mountains northwest through the San Jacinto Valley, which was named "San José" by Anza. Little documentation exists of Anza's route being used after the two expeditions, although it was likely used to bring Spanish supplies into the newly colonized Alta California (Lech 2004). In 1781, the Spanish government closed the route due to uprisings by the Yuman Indians. However, by that time, the missions were established and self-sufficient; thus, the need for Spanish supplies from Sonora had begun to diminish.

Although Riverside County proved to be too far inland to include any missions within its limits, Missions San Juan Capistrano and San Luis Rey de Francia, established in 1776 and 1798 respectively, claimed a large part of southwestern Riverside County. Due to the inland geographical location of the Cahuilla territory, the Spanish missions did not have as direct an effect on them as they did on the Luiseño, who

lived along the coast (Bean 1978). On the coast, the Luiseño were moved into the Mission environment where living conditions and diseases promoted the decline of the Luiseño population (Bean and Shipek 1978). However, throughout the Spanish Period, the influence of the Spanish progressively spread further from the coast and into the inland areas of southern California, as Missions San Luis Rey and San Gabriel extended their influence into the surrounding regions and used the lands for grazing cattle and other animals.

In the 1810s, ranchos and mission outposts called asistencias were established, increasing the amount of Spanish contact in the region. Asistencias were established in Pala in 1818 and San Bernardino in 1819. Additionally, Rancho San Jacinto was established for cattle grazing in the San Jacinto Valley (Bean and Vane 1980; Brigandi 1999). In 1820, Father Payeras, a senior mission official, promoted the idea that the San Bernardino and Pala asistencias be developed into full missions in order to establish an inland mission system (Lech 2004). However, Mexico won its independence from Spain in 1821, bringing an end to the Spanish Period in California.

2.2.3.2 Mexican Period

Although Mexico gained its independence from Spain in 1821, Spanish patterns of culture and influence remained for a time. The missions continued to operate as they had in the past, and laws governing the distribution of land were also retained in the 1820s. By 1830, the San Gabriel Mission began to relocate the San Bernardino asistencia to a new location, beginning to build 14 adobe structures. However, with the secularization of the mission in 1834, the construction was stopped, and the asistencia was abandoned. Following the secularization of the missions in 1834, large ranchos were granted to prominent and well-connected individuals, ushering in the Rancho Era, with the society making a transition from one dominated by the church and the military to a more civilian population, with people living on ranchos or in pueblos. With the numerous new ranchos in private hands, cattle ranching expanded and prevailed over agricultural activities.

In order to obtain a rancho, an applicant submitted a petition containing personal information and a land description and map (*diseño*). In 1841 Antonio Maria Lugo petitioned for a land grant for his three sons, as well as one of their friends: José del Carmen Lugo, José Maria Lugo, Vicente Lugo, and Diego Sepulveda. The land was granted to them in 1842 by Governor Juan B. Alvarado, to Antonio Lugo, his sons, and his nephews. The boundaries of this Rancho included the present-day cities of San Bernardino, Fontana, Rialto, Redlands, and Colton, with its southern boundary just past the edges of Gucaypa Canon, now known as Yucaipa Canyon. Another rancho, Rancho San Jacinto y San Gorgonio (also known as Rancho San Timoteo and Rancho Yucaipa), was given to James Johnson, a rarity as he was an English trader. Having moved to Alta California in 1833, he married Maria del Carmen Guirard and received the Rancho from Governor Manuel Micheltorena in 1843. Johnson proceeded to sell the lands to Louis Rubidoux in 1845. The northern boundary was the San Timoteo Canyon, and its western boundary was the San Gorgonio Creek.

2.2.3.3 American Period

American governance began in 1848, when Mexico signed the Treaty of Guadalupe Hidalgo, ceding California to the United States at the conclusion of the Mexican–American War. California's acquisition by the United States substantially increased the growth of the population in California. The California gold rush, the end of the Civil War, and the passage of the Homestead Act implementing the United States' "manifest destiny" to occupy and exploit the North American continent brought many people to

California after 1848. While the American system required that the newly acquired land be surveyed prior to settlement, the Treaty of Guadalupe Hidalgo bound the United States to honor the land claims of Mexican citizens who were granted ownership of ranchos by the Mexican government (Lech 2004). The Land Act of 1851 established a board of commissioners to review land grant claims, and land patents for the land grants were issued from 1876 to 1893.

A claim for Rancho San Bernardino was filed with the Public Lands Commission in 1852, and was granted to José del Carmen Lugo, José María Lugo, Vicente Lugo, and Diego Sepulveda in 1865. By that time, however, they had sold it to members of the Church of Latter-day Saints in 1851. Similarly, a claim for Rancho San Jacinto y San Gorgonio was filed with the Public Lands Commission in 1852, though the grant was not patented to Louis Rubidoux until 1872, four years after he had died and his widow had sold the rancho to James Singleton. Singleton sold the southern half of the property to Newton Nobel in 1869, who lost it to creditors in 1877, leading to its purchase by Frank Clough. In 1911, the southern half was purchased by the half-brothers William Singleton and James Haskell, uniting the rancho once again.

Initially, southern California was divided into only two counties: Los Angeles and San Diego. In 1853, San Bernardino County was added, placing it in what is now Riverside County, primarily within San Diego County and partially within San Bernardino County. Orange County was divided from Los Angeles County in 1889, and Riverside County was formed in 1893. Southern California, as we know it today, was developed by Americans and other immigrants who migrated to the western frontier in pursuit of gold and other mining, agriculture, trade, and land speculation (Lech 2004).

The federal government determined that the construction of a railroad route towards the Pacific coast was necessary despite the then success of stagecoach transportation of gold, people, and mail. Surveys were conducted in the 1850s to determine the best railroad route (Lech 2004). The Pacific Railroad Survey began in 1853 and ended with the San Gorgonio Pass chosen in 1854 as the best route into California. The Pacific Railway Act of 1862 (12 Statutes at Large, 489), officially entitled “An ACT to aid in the construction of a railroad and telegraph line from the Missouri river to the Pacific Ocean, and to secure the government the use of the same for postal, military, and other purposes,” granted 10 square miles per 1 mile of railroad track laid, with the amending Pacific Railroad Act passed in 1864, resulting in the subsidy being raised to 20 square miles. This land subsidy made the Southern Pacific Railroad Company, incorporated in 1865 and consolidated in 1870, owner of one-quarter of the private land in the state of California at that time (Lech 2004). The Southern Pacific Railroad Company began construction of a railroad route traversing the state southward in the 1870s, and the construction of the Southern Pacific Railroad reached San Timoteo Canyon and the summit of the San Gorgonio Pass in September of 1875 (Fickewirth 1992; Lech 2004: Map 9).

In the early 1880s, the California Southern Railway, a subsidiary of the Atchison, Topeka and Santa Fe Railway (Santa Fe), was completed and allowed for travel through the Cajon Pass to Barstow to a junction of the Atlantic and Pacific Railroad, and down to San Diego through western Riverside County. In 1887, Santa Fe officials consolidated their family of railroads in southern California, forming the California Central Railway. Although the California Southern remained an individual subsidiary at that time, it consolidated with the California Central Railway and the Redondo Beach Railway two years later 1889. The resulting corporation was the Southern California Railway Company, wholly owned by Santa Fe (Price 1988). In 1906, all of the Southern California Railway Company lines were deeded to the Atchison, Topeka and Santa Fe Railway Company.

The San Bernardino and Riverside County areas developed along with the railroads. The trains were used to transport settlers into the area, creating a period of agricultural and land development, ultimately resulting in the establishment of Riverside County in 1893, formed from portions of San Bernardino and San Diego counties.

2.2.3.4 Calimesa

The City of Calimesa began as a small rural town consisting of single-family homes and ranches (Calimesa Chamber of Commerce 2020; City of Calimesa 2014). When U.S. Route 99 was completed in the 1930s, businesses opened in the area, and the town began to differentiate itself from the nearby town of Yucaipa. In 1929, residents of the town sought to apply for its own post office – a contest was held to select the name for the new town, and Calimesa was selected from about 100 other names (Calimesa Chamber of Commerce 2020; City of Calimesa 2014).

In the late 1930s and early 1940s, the Calimesa Improvement Association, Inc. was formed with the purpose to develop and improve Calimesa and the surrounding community (Calimesa Chamber of Commerce 2020). Shortly after this, a community center was built in a park that had been purchased for a well by the South Mesa Water Company. By the mid-1960s, the Calimesa Improvement Association became the Calimesa Chamber of Commerce (Calimesa Chamber of Commerce 2020). The City of Calimesa was incorporated on December 1, 1990 (City of Calimesa 2014).

3.0 METHODS

HELIX requested a records search of the study area (APN 411-210-024) from the Eastern Information Center (EIC) at the University of California, Riverside on December 3, 2020. Due to the COVID-19 pandemic, the EIC has reduced its staff and changed its record search policies and procedures. To accommodate these changes, the records search request encompassed the study area and a half-mile search radius around the study area (EIC search area) to identify the previously recorded cultural resources and cultural resources studies that relate to the project. The results of the record search include the bibliographic data relating to the resources and previous studies conducted within the EIC search area, and copies of any reports or site forms that are located within the EIC search area. However, the map illustrating the location of the resources and previous studies is omitted from the record search. The results of the EIC record search were completed and received on March 22, 2021. In addition, HELIX reviewed the historic maps and aerial photographs to assess the potential for historic archaeological resources within the project site.

The Native American Heritage Commission (NAHC) was contacted on December 8, 2020, for a Sacred Lands File search and list of Native American contacts, which were received on December 22, 2020. HELIX sent letters on February 5, 2021, to the contacts listed by the NAHC to scope for additional information regarding tribal resources within the study area that may not be listed on any formal databases. Native American correspondence is included as Confidential Appendix C to this report.

A pedestrian field survey of the study area was directed by HELIX archaeologist Julie Roy, with participation from HELIX archaeologists Kent Smolik, Allana O'Connor, Kassie Sugimoto, Ricky Vallejos, and a Native American monitor from the Morongo Band of Mission Indians, Lerae Necochea, on February 16, 2021. The study area was surveyed in parallel transects, spaced approximately 10 to 15 meters (m) apart. Site P-33-015300 was revisited on December 8, 2021, by HELIX archaeologist Trevor

Gittelhough to assess the condition of the poles and to assess the presence or absence of historic date stamps on the poles.

4.0 RESULTS

4.1 RECORDS SEARCH

4.1.1 Previous Surveys

The records search results identified 19 previous cultural resource studies within the record search limits (Table 1, *Previous Studies within a Half-Mile of the Study Area*). One study, RI-06263 (Ahmet and Chandler 2005), studied the project site. RI-06263 consisted of a Phase I archaeological survey, which included an EIC record search, literature review, and a pedestrian survey. The investigation identified one historic resource, P-33-015299, as discussed below. No other previous studies overlap with the project site. The remaining 18 studies are comprised of archaeological surveys, a historical resource investigation, an architectural evaluation, and one report containing the results of archaeological monitoring. The results of the record search are provided in Appendix B.

Table 1
PREVIOUS STUDIES WITHIN A HALF-MILE OF THE STUDY AREA

Report Number (RI-)	Year	Author	Report Title
00950	1980	William Breece	Archaeological Survey of the Covinton Brothers Calimesa Project Area, Riverside and San Bernardino Counties, California
01095	1981	Adella Schroth and Marie Cottrell	Archaeological Assessment of Singleton Ranch, Near Calimesa Riverside County, California
02493	1989	Michael E. Macko	Results of an Intensive Cultural Resources Survey of a 120 Acre Parcel Near Calimesa, Riverside County, California
02981	1990	Christopher Drover	An Archaeological Assessment of General Plan Amendment 280, Riverside County, California
04145	1998	Roger Mason, Philippe Lapin, and Wayne H. Bonner	Cultural Resources Records Search and Survey Report for a Pacific Bell Mobile Services Telecommunications Facility: Cm206-01, City of Calimesa, California
05244	2001	Laurie White	Cultural Resource Assessment for Sprint Pcs Facility RV54XC526A (Church House), City of Calimesa, Riverside County, California
06263*	2005	Koral Ahmet and Evelyn Chandler	Cultural Resources Survey of a 10-Acre Parcel Located North of Sandalwood Drive on 7th Street in Calimesa, Riverside County, California
06926	2006	Jeanette A. McKenna	A Phase I Cultural Resources Investigation of Proposed Access Road Alternatives Leading to the Mesa View Middle School in the City of Calimesa, Riverside County, California
07585	2006	Jennifer M. Sanka	Phase I Cultural Resources Assessment and Paleontological Records Review, Mesa Verde Estates Access Road Project, Calimesa, Riverside County, California

Report Number (RI-)	Year	Author	Report Title
07740	2007	Michael Hogan	Letter Report: Archaeological Monitoring Program Perisits Farms; Tentative Tract NOs. 26925, 30386, and 30387; City of Calimesa, Riverside County, California
07869	2008	Stacey C. Jordan and Michael M. DeGiovine	Archaeological Survey Report for Southern California Edison Company Deteriorated Pole Replacement Project for a Total of Ten Poles on IDA 12KV (#4679978E and #4744631E), Oak Glen 12KV (#4744626E), Bryn Mawr 12KV (#4744645E), Stewart 4KV (#4760030E), Boulder 12KV (#4714250E, Lapins 12KV (4759904E), Mesa Grande 12KV (#4759915E), Conine 12KV (#4759921E) and Preston 12KV (#4759658E) Circuits and Removal of One Pole on Bench 12KV (#782504H) Circuit on Private Lands in Riverside and San Bernardino Counties, California (WO#6031-4800, AI#8-4850, AI#8-4852)
07904	2008	Josh Smallwood, Terri Jacquemain, and Laura Hensley Shaker	Historical/Archaeological Resources Survey Report: County Line Service Station, APNs 411-040-003, -004, and -005, City of Calimesa, Riverside County, California
08010	2004	Nat Lawson, Riordan Goodwin, Curt Duke, and Judith Marvin	Cultural Resource Assessment Oak Valley Specific Plan1Amendment City of Calimesa Riverside County, California
08049	2008	Wayne Bonner and Marnie Aislin-Kay	Letter Report: Cultural Resources Records Search and Site Visit Results for Royal Street Communications California, LLC Candidate LA3221A (Crown Collocation - 879944 Church House), 9530 Calimesa Boulevard, Calimesa, Riverside, California
08418	2001	Laurie S. White	Letter Report: Cultural Resource Assessment for Sprint PCS Facility RV54XC526A (Church House), City of Calimesa, Riverside County, California
09242	2014	Don C. Perez	Calliline / Ensite #17468

* Overlaps project area/APE

4.1.2 Previously Recorded Resources

The EIC record search contained 17 previously recorded cultural resources within a half-mile radius of the project site (Figure 5, *Resources within a Half Mile*, provided in Appendix B). However, 11 of these resources were identified in error and are located outside of the half-mile search radius. As such, only six resources are located within a half-mile radius of the project site (Table 2, *Previously Recorded Resources Within Half Mile of the Study Area*). Of these six resources, one resource, P-33-015300, is recorded within the project site, and one resource, P-33-015299 (Ahmet 2005a), was identified adjacent to the project footprint, within the study area. P-33-015299 is a historic isolate containing two glass bottle fragments and a scattering of porcelain plate fragments located within the northern half of APN 411-210-024. The glass fragments were identified by ECORP Consulting in 2006 during a pedestrian survey conducted in support of a Phase I archaeological study (Ahmet and Chandler 2005). The parcel was cleared of vegetation prior to the 2006 pedestrian survey, which facilitated the visibility of the site surface during the survey. The two glass bottles and porcelain plate fragments were observed on the surface within the northern half of the parcel, outside of the development footprint. P-33-015300 (Ahmet 2005b) was recorded as an electric utility line held up by eight wooden poles that were erected in 1940. The site is located within the project area, along Seventh Street, and extends from the fast-food outlet to the intersection of Villa Calimesa Lane.

The remaining four resources located within a half-mile of the project site consist of a historic site with a water retention feature (P-33-013993); a historic site containing a structural foundation (P-33-013995); a historic site containing a single-family residence, detached garage, and a wood barn (P-33-016792); and a historic site containing a two-story vernacular farmhouse, a secondary two-story vernacular barn/residence, a wooden chicken coop, and a corrugated metal barn (P-33-016793). These four sites reside west of I-10. P-33-013993 and P-33-013995 are located south of the project site, situated south of Sandalwood Drive. P-33-016792 and P-33-016793 are located north of the project site, near the residential communities located north of Villa Calimesa Lane. The EIC record search did not identify any prehistoric resources within a half-mile of the project site. Furthermore, no historic resources have been identified within the development footprint.

Table 1
PREVIOUSLY RECORDED RESOURCES WITHIN A HALF-MILE OF THE STUDY AREA

Primary Number (P-33-##)	Trinomial (CA-RIV-#)	Age	Description	Recorder, Date
013993	-	Historic	Site	Laurie S. White, 2005
013995	-	Historic	Site	Laurie S. White, 2005
015299	-	Historic	Isolate	Koral Ahmet, 2005
015300*	-	Historic	Site	Koral Ahmet, 2005
016792	-	Historic	Building	Ben Taniguchi, Laura Gallegos, and Christeen Taniguchi, 2006
016793	-	Historic	Building	Ben Taniguchi, Laura Gallegos, and Christeen Taniguchi, 2006

* located within the project site

4.1.3 P-33-015299

P-33-015299 (Ahmet 2005a) is described as a historic isolate located outside of the project site but within the study area. The isolate consists of two sun-colored amethyst glass fragments observed within a 40-foot-area. The first item is a bottle-top fragment made of ¼ inch thick glass. The bottle fragment measured one inch in diameter and contained a conical opening for a cork stopper. The second fragment is part of a bottle base measuring 1 by ¾ by 1/8 inch thick. These two glass bottle fragments appear to belong to a single bottle. The sun-colored amethyst glass dates from 1880 to 1914 (Ahmet and Chandler 2005; Kendrick 1971). White porcelain plate fragments were also observed around the bottle fragments and across the area, but the plate fragments were too small to be positively dated.

4.1.4 P-33-015300

P-33-015300 (Ahmet 2005b) is described as eight historic utility poles, located within the project site and study area. This site consists of a segment of an electrical utility line held up by eight wooden poles that run north-south along the east side of Seventh Street, initiating at the fast-food outlet and continuing north to the intersection of Seventh Street and Villa Calimesa Lane. Five of the eight poles have date stamps consisting of circular date tags with "40" and "50" embossed on them. These pins indicate that the poles were erected in 1940 and then inspected a decade later. One other pole has a

date stamp of 1950, and two other poles are recent replacements. This electrical line is probably part of a much larger linear network that extends throughout the Calimesa area.

4.2 OTHER ARCHIVAL RESEARCH

Various additional archival sources were also consulted, including historic topographic maps and aerial imagery. These include historic aerials from 1938, 1959, 1966, 1967, 1968, 1969, 1972, and 1980 (NETR Online 2020) and several historic USGS topographic maps, including the 1901 Elsinore (1:125,000), the 1942 Perris (1:62,500), the 1953, 1967, and 1979 El Casco (1:24,000) topographic maps (USGS Topographic Map Explorer 2020). Bureau of Land Management General Land Office (GLO) Records were also consulted. The purpose of this research was to identify historic structures and land use in the area.

No buildings appear in the study area on the 1901 USGS 30' Elsinore quadrangle, but there are a few dirt roads present, and the "Southern Pacific R. R." is shown southwest of the study area. Some roads are present surrounding the study area, and a single structure is noted as being located to the west. The 1942 Perris map shows State Routes 70 and 99 to the east of the project site. The map also includes what appears to be an orchard or other agricultural area located to the north, and a river or stream to the south of the project. The 1953, 1967, and 1979 El Casco topographic maps show the development of Calimesa and the Yucaipa Valley. No buildings or structures are recorded within the study area in these topographic maps. No buildings or structures appear within the study area in the historical aerial photographs. However, the aerial photographs show the construction of Interstate 10, as well as Sandalwood Drive to the south and Seventh Street along the western boundary of the study area (NETR Online 2020).

Township 2 South, Range 2 West was surveyed in 1871 – the surveyors classified the area containing the project as "soil 2nd rate, good grazing" (GLO 1871). It was surveyed again in 1880, 1883, and 1897, with little change during that time. The western half of the study area was granted to Huston Kissee in 1893 under the authority of the May 20, 1862: Homestead Entry Original (12 Stat. 392), while the eastern half of the project was granted to John Rogers in 1891 under the authority of the April 24, 1820: Sale-Cash Entry (3 Stat. 566) (GLO 1891, 1983). In the 1871, 1880, and 1883 maps an "Indian village" is recorded in Section 21, approximately two miles southwest of the study area, along the edge of the section of San Timoteo Canon that also splits to runs on either side of the project site. These maps also show roads running to, and likely through, the project area.

4.3 NATIVE AMERICAN CONTACT PROGRAM

HELIX contacted the Native American Heritage Commission (NAHC) on December 8, 2020, for a Sacred Lands File search and a list of Native American contacts for the project area. The NAHC indicated in a response dated December 22, 2020, that the search results were negative, though the "absence of specific site information…does not indicate the absence of cultural resources in any project area." HELIX submitted letters to the Native American representatives and interested parties identified by the NAHC on February 5, 2021, to request any additional information regarding cultural resources that may not be documented at the EIC or on the Sacred Lands File. Three responses have been received to date (Table 3, *Native American Contact Program Responses*).

The San Manuel Band of Mission Indians submitted an email on February 12, 2021, to confirm that the project is located within Serrano ancestral territory, but the tribe had no further comments or information. However, the tribe may wish to pursue AB 52 consultation with the City. The Agua Caliente

Band of Cahuilla Indians responded on March 11, 2021, to request a cultural resources inventory of the project area by a qualified archaeologist prior to any development activities in this area, a copy of the records search with associated survey reports and site records from the information center, and copies of any cultural resource documentation (report and site records) generated in connection with the project. The tribe did not submit any additional comments or information relating to cultural resources within the project area. Lastly, the Fort Yuma Quechan Indian Tribe responded on February 8, 2021, to announce that they have no comments or information regarding cultural resources within the project area and they wish to defer to the tribes more local to the site. To date, no other tribes have responded; if any additional responses are received, they will be forwarded to the City of Calimesa staff. The results of the Native American correspondence are included as Appendix C (Confidential Appendices, bound separately).

Table 2
NATIVE AMERICAN CONTACT PROGRAM RESPONSES

Date of Response	Tribe	Name/Position	Summary of Response
2/12/2021	San Manuel Band of Mission Indians	Ryan Nordness, Cultural Resource Analyst	Email response indicating the proposed project is located within Serrano ancestral territory. However, the area is not of great concern to SMBMI and the tribe has no information to send over. SMBMI may be interested to consult whenever this project moves into AB52/CEQA territory.
2/8/2021	Fort Yuma Quechan Indian Tribe	Jill McCormick, THPO	Email response indicating the tribe has no comment on the proposed project. The tribe defers to more local tribes.
3/11/2021	Agua Caliente Band of Cahuilla Indians	Lacy Padilla, Archaeologist	Letter submitted via email stating the project site is within the Tribe's Traditional Use Area and, therefore, requests a cultural resources inventory of the project area by a qualified archaeologist prior to any development activities in this area, a copy of the records search with associated survey reports and site records from the information center, and copies of any cultural resource documentation (report and site records) generated in connection with this project.

4.4 SURVEY

A pedestrian survey of the study area was conducted on February 16, 2021, by HELIX staff archaeologists Julie Roy, Kent Smolik, Allana O'Connor, Kassie Sugimoto, and Ricky Vallejos. Lerae Necochea, a Native American monitor from the Morongo Band of Mission Indians, also participated in the survey. The study area was surveyed by walking in north-south transects spaced approximately 10 to 15m apart. The ground visibility was low to moderate, with most of the study area covered by low-lying vegetation (Plate 1). Visibility was greatest along the shoulder of the road (Plate 2). The terrain was flat from a past grading activity, apart from a drainage (culvert) located in a concave depression on the east side of the study area (Plate 3). All portions of the study area were inspected for cultural resources residing on the surface.

No cultural material was observed within the study area; however, as noted above, the study area was overlain by low-lying vegetation that inhibited ground visibility. However, the surveyors observed modern refuse throughout the entire parcel, concrete debris from old posts within the northern half of

the parcel (Plate 4), and a standing well cap located within the center of the study area along the western boundary (Plate 5). Although modern refuse was noted throughout the parcel, including the project site, the concrete debris and well cap were located outside the development footprint. As such, the results of the pedestrian survey did not identify any previously unrecorded historic or prehistoric artifacts or features on the surface of the project site.

The EIC record search identified two historic resources (P-33-015299 and P-33-015300) recorded within the study area. P-33-015299, located in the northern half of the parcel, outside of the development footprint, was recorded as two glass bottle fragments that date from 1880 to 1914 and a scattering of porcelain plate fragments that were too small to be dated. However, neither the glass bottle fragments nor the porcelain plate fragments were observed during the survey. Although it is possible that poor ground visibility hindered the detection of P-33-015299, it is more likely that these items have been disturbed by the grading activity conducted after their recordation in 2006.

Site P-33-015300 was revisited on December 8, 2021, by HELIX archaeologist Trevor Gittelhough to assess the condition of the poles and to assess the presence or absence of historic date stamps on the poles. The site was originally recorded in 2005 as eight electric utility poles, of which five poles contained historic date stamps dating to 1940, one pole dated to 1950, and two poles were not of historic age because they were recently replaced and lacked date stamps. The site was posited to be part of a larger extant transmission line that runs through Calimesa. However, Mr. Gittelhough identified a total of nine poles, five installed in 1940, one in 1950, and three installed post-2014. The newly observed conditions of Site P-33-015300 were recorded as a site update to the Department of Parks and Recreation (DPR) Primary Record Form (Provided in Appendix D, *Survey Results and DPR forms*) and submitted to the EIC by HELIX.

Of the nine poles that comprise site P-33-015300, only three poles reside within the project site: Pole 4639209E, Pole 1609885E, and Pole 1609884E (Figure 6, *Site P-33-015300,* provided in Appendix D). The three poles within the project site are designated for removal. Pole 4639209E is not of historic age because it is a recently replaced pole, residing on the northern boundary of the project site. Pole 1609885E is located immediately south of Pole 4639209E and is also a recently replaced pole. However, Pole 1609884E, located along the southwestern project site boundary, dates to 1940.

Of these two sites, neither will be adversely impacted by the project. P-33-015299 is located outside of the development footprint. Although site P-33-015300 resides within the development footprint and three poles are slated for removal during construction activities, only one pole is of historic age (Pole 1609884E). However, utility poles are not considered eligible historic resources under CEQA or historic properties under NHPA as individual resources. As such, the components of P-33-015300 are only considered as elements of a historic alignment. As long as the historic alignment is not changed, the poles can be replaced or removed as needed. Since the project will not be removing the alignment, but rather altering the alignment to underground, the project will not significantly or adversely impact site P-33-015300.



Plate 1. Overview of the project site, view to the south.



Plate 2. West side of the study area along Seventh Street, view to the south.



Plate 3. Drainage (culvert) located in the center of the study area along the eastern boundary, view to the east.



Plate 4. Concrete debris observed within the northern portion of the study area outside of the development footprint.



Plate 5. Well cap located in the center of the study area along the western boundary, view to the east.

5.0 SUMMARY AND MANAGEMENT RECOMMENDATIONS

HELIX conducted a study to identify cultural resources within the Sandalwood Commercial Development Project site and to determine the effects of the project on any known archaeological or historical resources. The study included a record search conducted through the EIC, a Sacred Lands File search, tribal outreach, literature and archival review, and a pedestrian survey of APN 411-210-024 (study area). However, the project will only develop the southern half of APN 411-210-024.

The EIC record search identified six previously recorded resources within a half-mile of the project site. To date, there are no known prehistoric sites or resources within a half-mile of the project site. All six resources identified by the EIC pertain to the historic era, consisting of historic sites, isolates, and structures. One resource is located outside the development footprint but is in proximity to the project site, within the study area, and one resource is located within the project area. P-33-015299, a historic

isolate consisting of two glass bottle fragments and a scattering of porcelain plate fragments, was recorded within the northern half of the parcel, outside the development footprint. A second resource, P-33-015300, is located within the development footprint, located along the east side of Seventh Street. P-33-015300 consists of nine wooden utility poles from 1940 and 1950. Three of the utility poles, Poles 4639209E, 1609885E, and 1609884E, are located within the project site and will be removed and relocated underground. Although P-33-015300 is recorded as an isolated resource, the wooden utility poles are probably related to a larger network of utility lines that has yet to be documented, recorded, and assessed.

When discussing electrical transmission and distribution facilities, their historic significance is generally determined, not by themselves, but by their association with other historically significant facilities such as the Hoover Dam (Taylor 2005). When such facilities are determined to be historically significant, it is the entire alignment that is significant and not individual elements, such as the utility poles themselves. Therefore, the replacement of individual elements, including wood poles, does not affect the significance of the line since the function of the line is maintained, and thus its association with the other historic facilities that give the alignment its significance (Taylor 2005). In addition, because wood poles are not architecturally or technologically distinct, the replacement of such elements does not impact the integrity of any transmission and distribution lines (Taylor 2005). Thus, the replacement or removal of these poles will not impact the integrity of the resource itself, as the function of the transmission line continues to be maintained. Since the project does not intend to alter or remove the alignment as a whole, the project will not cause a significant impact per CEQA or an adverse effect to a historic property per NHPA.

With the exception of P-33-015300, the pedestrian survey did not observe any cultural resources within the development footprint nor within the northern half of the study area. The two glass bottle fragments and porcelain plate fragments (P-33-015299) were not located during the pedestrian survey. Low-lying vegetation on the surface of the site may have hindered the ability to find the glass bottle and porcelain fragments. Conversely, these items may have been disturbed by past grading activities unrelated to the project. As such, the project will not impact P-33-015299.

The historic aerials and maps show the project site as remaining undeveloped. However, the surrounding area has been disturbed by nineteenth- and twentieth-century agricultural activities, irrigation systems, dirt road formation, and transportation (railway) and utility (transmission and gas line) installations. Sandalwood Drive and Seventh Street were developed by the early 1960s to provide access to a newly developed residential tract off C Street, located northwest of the project site. The lot south of the project site, currently the location of a fast-food restaurant, was developed in the late 1990s and early 2000s. Although the project site has remained undeveloped, the parcel has been graded to its existing setting.

A search of the Sacred Lands File did not identify any known sacred lands or tribal cultural resources. However, the NAHC indicated that their results do not preclude cultural resources within the project area. As per their recommendation, HELIX submitted letters to the Native American representatives and interested parties identified by the NAHC on February 5, 2021, to request additional information regarding cultural resources that may not be documented at the EIC or on the Sacred Lands File. To date, three tribes, the San Manuel Band of Mission Indians, the Agua Caliente Band of Cahuilla Indians, and the Fort Yuma Quechan Indian Tribe, submitted letters in response. However, no additional sites or resources were identified through HELIX's tribal outreach.

5.1 MANAGEMENT RECOMMENDATIONS

Based on the results of the current study, no archaeological or historic properties will be affected by the Sandalwood Commercial Development Project. Two historic isolates, two glass bottle fragments and porcelain plate fragments (P-33-015299), and a series of wooden utility poles (P-33-015300) are located within the study area. Site P-33-0015299 is mapped outside of the development footprint and will not be impacted by the project; in addition, this site was not reidentified during the current survey. Site P-33-015300 is comprised of nine utility poles, located within the development footprint, which are not considered historic resources individually, but elements of a larger historic alignment that extend throughout the Calimesa area. As it is the entire alignment that is considered historic (although not assessed as to eligibility for the CRHR or NRHP) and not the individual poles, any replacement or removal does not impact the historic nature or integrity of the site. As such, P-33-015300 will not result in a significant impact under CEQA, or be adversely impacted per NHPA, by the project.

The record searches and Native American outreach did not identify any prehistoric resources within a half-mile of the project site. However, the San Manuel Band of Mission Indians indicated that they may wish to consult with the City and provide additional information regarding tribal cultural resources during AB 52 consultation. If tribal cultural resources are identified during this consultation, such resources may require avoidance or mitigation measures. Furthermore, there is a potential for encountering buried archaeological resources during ground-disturbing activities, such as grading and excavating within native sediment. However, the project site has been previously disturbed by grading activities, and the chances of encountering intact cultural deposits are very low.

Several historic era resources relating to nineteenth- and twentieth-century agricultural and farming activities have been identified near the project site. Furthermore, P-33-015299 was identified within the same parcel as the proposed development. However, P-33-015299 was not identified within the parcel during the pedestrian survey. Due to past grading activities within the parcel, it is probable that the historic isolate, and any other potentially significant cultural deposit, have been disturbed or removed from the parcel.

While site P-33-015300 is located within the project site, it is the alignment as a whole and not the individual utility poles that would be considered historic. As the alignment will not be impacted by the project, and due to the level of past site disturbances, no further work is recommended. There is, however, a low probability of encountering intact cultural deposits during the project's development. However low, the chances of encountering cultural resources during ground-disturbing activities, such as grading, trenching for utilities, or excavating, cannot be dismissed. Inadvertent discoveries relating to nineteenth- and twentieth-century agricultural activities, irrigation systems, road formation, transportation (railway), and utility (transmission and gas line) installations may yield project-related impacts to cultural resources. As such, it is recommended that the project retain a qualified archaeologist to consult on any potential finds discovered during construction activities. In the event that additional cultural resources or sensitivities are identified through tribal consultation, this study recommends an archaeological and Native American monitoring program be implemented for ground-disturbing activities.

In the event that human remains are discovered, the County Coroner shall be contacted. If the remains are determined to be of Native American origin, the Most Likely Descendant, as identified by the NAHC, shall be contacted in order to determine proper treatment and disposition of the remains. All requirements of Health & Safety Code §7050.5 and PRC §5097.98 shall be followed.

Should the project limits change to incorporate new areas of proposed disturbances outside of the study area, an archaeological survey of these areas will be required to assess potential impacts to cultural resources.

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Appendix A

Resumes

Mary Robbins-Wade, RPA

Cultural Resources Group Manager

Summary of Qualifications

Ms. Robbins-Wade has 41 years of extensive experience in both archaeological research and general environmental studies. She oversees the management of all archaeological, historic, and interpretive projects; prepares and administers budgets and contracts; designs research programs; supervises personnel; and writes reports. Ms. Robbins-Wade has managed or participated in hundreds of projects under the California Environmental Quality Act (CEQA), as well as numerous archaeological studies under various federal jurisdictions, addressing Section 106 compliance and National Environmental Policy Act (NEPA) issues. She has excellent relationships with local Native American communities and the Native American Heritage Commission (NAHC), as well as has supported a number of local agency clients with Native American consultation under State Bill 18 and assistance with notification and Native American outreach for Assembly Bill 52 consultation. Ms. Robbins-Wade is a Registered Professional Archaeologist (RPA) and meets the U.S. Secretary of the Interior's Professional Qualifications for prehistoric and historic archaeology.

Education

Master of Arts, Anthropology, San Diego State University, California, 1990

Bachelor of Arts, Anthropology, University of California, Santa Barbara, 1981

Registrations/ Certifications

Caltrans, Professionally Qualified Staff-Equivalent Principal Investigator for prehistoric archaeology, , Bureau of Land Management Statewide Cultural Resource Use Permit (California), permit #CA-18-35, , Register of Professional Archaeologists #10294, 1991

County of San Diego, Approved CEQA Consultant for Archaeological Resources, 2007 , Orange County Approved Archaeologist, 2016

Selected Project Experience

12 Oaks Winery Resort (2015 - 2018). Project Manager/ Principal Investigator for a cultural resources survey of approximately 650 acres for a proposed project in the County of Riverside. Oversaw background research, field survey, site record updates, Native American coordination, and report preparation. Met with Pechanga Cultural Resources staff to discuss Native American concerns. Worked with applicant and Pechanga to design the project to avoid impacts to cultural resources. Work performed for Standard Portfolio Temecula, LLC.

28th Street between Island Avenue and Clay Avenue Utilities Undergrounding Archaeological Monitoring (2014 - 2018). Project Manager/Principal Investigator for a utilities undergrounding project in a historic neighborhood of East San Diego. Responsible for project management; coordination of archaeological and Native American monitors; coordination with forensic anthropologist, Native American representative/Most Likely Descendent, and City staff regarding treatment of possible human remains; oversaw identification of artifacts and cultural features, report preparation, and resource documentation. Work performed for the City of San Diego.

Archaeological Testing for the F11 (2015 - 2017). Project Manager for a cultural resources study for a proposed mixed-use commercial and residential tower in downtown San Diego. Initial work included an archaeological records search and a historic study, including assessment of the potential for historic archaeological resources. Subsequent work included development and implementation of an archaeological testing plan, as well as construction monitoring and the assessment of historic archaeological resources encountered. Work performed for the Richman Group of Companies.

Blended Reverse Osmosis (RO) Line Project (2018 - 2019). Project Manager/ Principal Investigator for cultural resources monitoring during construction of a 24-inch recycled water pipeline in the City of Escondido. Oversaw monitoring program, including Worker Environmental Awareness Training; responsible for Native American outreach/coordination, coordination with City staff and construction crews, and general project management. Work performed for the City of Escondido.

Borrego Springs Community Library IS/MND (2015 - 2016). Cultural Resources Task Manager/ Principal Investigator for a cultural resources survey for a proposed development consisting of a public library, park, and police substation for the County of San Diego. The project is proposed on a 20.5-acre site on undeveloped land in the Borrego Springs community.

Buckman Springs Road Bridge Widening Technical Studies (2017 - 2020). Senior archaeologist for a cultural resources survey in support of the proposed Buckman Springs Road Bridge Widening Project, entails the rehabilitation and widening of the existing bridge crossing of Buckman Springs Road over Cottonwood Creek (Bridge No. 57C-0270). The project proponent is the County of San Diego Department of Public Works (DPW), with local assistance funding from the Federal Highway Administration. Provided senior technical oversight and quality assurance/quality control on deliverables.

Buena Sanitation District Green Oak Sewer Replacement Project (2016 - 2017). Project Manager/Principal Investigator for a cultural resources testing program in conjunction with a proposed sewer replacement project for the City of Vista. Oversaw background research, fieldwork, site record update, Native American coordination, and report preparation. Work performed for Harris & Associates, Inc., with the City of Vista as the lead agency.

Cactus II Feeder Transmission Pipeline IS/MND (2017 - 2018). Cultural Resources Task Lead for this project in the City of Moreno Valley. Eastern Municipal Water District proposed to construct approximately five miles of new 30-inch to 42 inch-diameter pipeline; the project would address existing system deficiencies within the City and provide supply for developing areas. Oversaw background research, field survey, and report preparation. Responsible for Native American outreach for cultural resources survey. Assisted District with Native American outreach and consultation under AB 52. Work performed under an as-needed contract for Eastern Municipal Water District.

Dale 2199C Pressure Zone Looping Pipeline Project (2019 - 2019). Cultural Resources Task Lead for this project in Moreno Valley. Eastern Municipal Water District proposed construction of a new pipeline to connect two existing pipelines in the District's 2199C Pressure Zone. The pipeline would consist of an 18-inch-diameter pipeline between Kitching Street and Alta Vista Drive that would connect to an existing 12-inch-diameter pipeline in the northern end of Kitching Street and to an existing 18-inch-diameter pipeline at the eastern end of Alta Vista Drive. The project will improve reliability and boost the Dale Pressure Zone's baseline pressure and fire flow availabilities. Four potential alignments were under consideration; three of these bisect undeveloped land to varying degrees, while the other is entirely situated within developed roadways. Oversaw background research and field survey. Responsible for Native American outreach for cultural resources survey and co-authored technical report. Work performed under an as-needed contract for Eastern Municipal Water District.

Downtown Riverside Metrolink Station Track & Platform Project (2019 -). Cultural Resources Task Lead for this project involving changes to and expansion of the Downtown Riverside Metrolink Station. Overseeing records search and background information, archaeological survey, and report preparation. Responsible for coordination with Native American Heritage Commission, Riverside County Transportation Commission (RCTC), and Federal Transportation Authority (FTA) on Native American outreach. Work performed for Riverside County Transportation Commission as a subconsultant to HNTB Corporation.

Emergency Storage Pond Project (2018 - 2018). Project Manager/Principal Investigator for a cultural resources testing program in conjunction with the Escondido Recycled Water Distribution System - Phase 1. Two cultural resources sites that could not be avoided through project design were evaluated to assess site significance and significance of project impacts. Work included documentation of bedrock milling features, mapping of features and surface artifacts, excavation of a series of shovel test pits at each site, cataloging and analysis of cultural material recovered, and report preparation. The project is located in an area that is sensitive to both the Kumeyaay and Luiseño people, requiring close coordination with Native American monitors from both groups. Work performed for the City of Escondido.

Escondido Brine Line Project (2018 - 2019). Project Manager/Principal Investigator for cultural resources monitoring during construction of approximately 2.3 miles of a 15-inch brine return pipeline in the City of Escondido. The project, which is part of the City's Agricultural Recycled Water and Potable Reuse Program, enables discharge of brine recovered from a reverse osmosis facility that is treating recycled water; it is one part of the larger proposed expansion of Escondido's recycled water distribution to serve eastern and northern agricultural land. The project is located in an area that is sensitive to both the Kumeyaay and Luiseño people, requiring close coordination with Native American monitors from both groups. Oversaw monitoring program, including Worker Environmental Awareness Training; responsible for Native American outreach/coordination, coordination with City staff and construction crews, and general project management. Work performed for the City of Escondido.

Fox Tank Monitoring (2018 - 2019). Principal Investigator and Project Manager for the cultural resources monitoring program during construction of the Fox Tank Project. Oversaw the cultural resources monitoring program, including coordination with the District and the Native American tribal cultural monitors regarding cultural resources encountered during monitoring and their ultimate disposition. Work performed under an as-needed contract for Eastern Municipal Water District.

Hacienda del Mar EIR (2016 - 2020). Senior Archaeologist for a proposed commercial development project for a senior care facility in Del Mar. Assisted in the preparation of associated permit applications and an EIR. Oversaw background research, updated records search and Sacred Lands File search, monitoring of geotechnical testing, coordination with City staff on cultural resources issues, and preparation of updated report. Prior to coming to HELIX, served as Cultural Resources Task Lead for the cultural resources survey for the project, conducted as a subcontractor to HELIX. Work performed for Milan Capital Management, with the City of San Diego as the lead agency.

Haymar Easement Protection Project (2020 -). Cultural Resources Task Lead/Principal Investigator for an emergency repair project to protect a trunk sewer and associated access path badly damaged by erosion. Overseeing cultural resources monitoring during construction in this highly culturally sensitive area, including coordination with Luiseño tribal monitors and City staff.

Judson Potable Water Storage Tank and Transmission Pipeline IS/MND (2016 - 2019). Cultural Resources Task Lead for this project in the City of Moreno Valley. Eastern Municipal Water District is proposing the construction and operation of a steel, 2.2-million-gallon (MG) potable water storage tank, approximately 2,300 linear feet of 18-inch-diameter transmission pipeline, a paved access road, a detention basin, and other appurtenances to support tank operations. Oversaw background research and field survey. Responsible for Native American outreach for cultural resources survey and co-authored technical report. Assisted District with Native American outreach and consultation under AB 52. Work performed under an as-needed contract for Eastern Municipal Water District.

Lilac Hills Ranch (2014 - 2017). Project Manager/Principal Investigator of a cultural resources survey and testing program for an approximately 608-acre mixed-use development in the Valley Center area. Oversaw background research, field survey, testing, recording of archaeological sites and historic structures, and report preparation. Responsible for development of the research design and data recovery program, preparation of the preservation plan, and Native American outreach and coordination. The project also included recording historic structures, development of a research design and data recovery program for a significant archaeological site, and coordination with the Native American community and the client to develop a preservation plan for a significant cultural resource. The project changed over time, so additional survey areas were included, and a variety of off-site improvement alternatives were addressed. Work performed for Accretive Investments, Inc. with County of San Diego as the lead agency.

Moulton Niguel Water District Regional Lift Force Main Replacement (2017 - 2018). Cultural Resources Task Lead/Principal Investigator for the replacement of a regional lift station force main operated by Moulton Niguel Water District (MNWD). The project comprises an approximately 9,200 linear foot alignment within Laguna Niguel Regional Park in Orange County, in an area that is quite sensitive in terms of cultural resources. HELIX is supporting Tetra Tech throughout the preliminary design, environmental review (CEQA), and final design, including permitting with applicable state and federal regulatory agencies. The cultural resources survey will inform project design, in order to avoid or minimize potential impacts to cultural resources. Oversaw background research and constraints analysis, Native American coordination, cultural resources survey, coordination with MNWD and Tetra Tech, and report preparation. Work performed for MNWD, as a subconsultant to Tetra Tech.

Murrieta Hot Springs Road Improvements Project (2018 - 2020). Principal Investigator/Cultural Resources Task Lead for cultural resources survey in support of an Initial Study/Mitigated Negative Declaration (IS/MND) for the widening of Murrieta Hot Springs Road in the City of Murrieta. The project would widen or restripe Murrieta Hot Springs Road between Winchester Road and Margarita Road from a 4-lane roadway to a six-lane roadway to improve traffic flow, as well as provide bike lanes in both directions along this segment. A new raised median, light poles, signage, stormwater catch basins, retaining walls, and sidewalks would also be provided on both sides of the roadway, where appropriate.

The project area is in a location that is culturally sensitive to the Native American community. The cultural resources study included tribal outreach and coordination to address this cultural sensitivity.

Oceanside Water Utilities Dept On-Call Environmental Consulting Services, 2017-2022 (2018 - 2020). Cultural Resources Task Lead/Principal Investigator for three consecutive on-call contracts with the City of Oceanside Water Utilities Department. Oversees the preparation of cultural resource reports, coordinates with Native American tribes, and directs construction monitoring teams for projects as part of this contract. Project types include reservoirs, pump stations, lift stations, pipelines, and treatment plants.

Park Circle - Cultural Resources (2014 - 2019). Project Manager/Principal Investigator of a cultural resources survey and testing program for a proposed 65-acre residential development in the Valley Center area of San Diego County. The project is located along Moosa Creek, in an area that is culturally sensitive to the Luiseño people. Oversaw background research, historic study, field survey, testing, recording archaeological sites and historic structures, and report preparation. Responsible for Native American outreach and coordination. The cultural resources study included survey of the project area, testing of several archaeological sites, and outreach and coordination with the Native American community, as well as a historic study that addressed a mid-20th century dairy barn and a late 19th century vernacular farmhouse. Work performed for Touchstone Communities.

Peacock Hill Cultural Resources (2014 - 2017). Project Manager/Principal Investigator of a cultural resources study update for a residential development in Lakeside. Oversaw updated research, fieldwork, lab work, analysis by forensic anthropologists, report preparation, and Native American coordination. In the course of outreach and coordination with the Native American (Kumeyaay) community, possible human remains were identified, prompting additional fieldwork, as well as coordination with the Native American community and forensic anthropologists. Work performed for Peacock Hill, Inc.

Sky Canyon Sewer Environmental Consulting (2018 - 2019). Cultural Resources Task Lead for this project adjacent to the City of Murrieta in southwestern Riverside County. Eastern Municipal Water District (District) proposed to implement the Sky Canyon Sewer Main Extension Project to construct approximately 6,700 linear feet of new gravity-fed 36-inch-diameter sewer main to provide additional sewer capacity for planned development. The proposed 36-inch-diameter sewer main would extend the existing 36-inch-diameter French Valley Sewer at Winchester Road further downstream to Murrieta Hot Springs Road. Oversaw background research and field survey. Responsible for Native American outreach for cultural resources survey and co-authored technical report. Assisted District with Native American outreach and consultation under AB 52. Work performed under an as-needed contract for Eastern Municipal Water District.

Stacie Wilson,RPA

Senior Archaeologist

HELIX Environmental Planning

Summary of Qualifications

Ms. Wilson has been professionally involved in cultural resources management for 18 years and has extensive experience in both archaeology and Geographic Information Systems (GIS). She has served as principal investigator on numerous cultural resources management projects, and regularly coordinates with local, state, and federal agencies and Native American tribal representatives. She is skilled in project management, archaeological inventories and excavation, and report documentation and has broad experience on private, municipal, federal, utility, and renewable energy projects. Her years of experience also encompass an understanding of California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA) compliance regulations. She is proficient at creating, organizing, and analyzing GIS data, and serving as a spatial and geostatistical analyst. Ms. Wilson is a Registered Professional Archaeologist (RPA) and meets the U.S. Secretary of the Interior's Professional Qualifications for prehistoric and historic archaeology.

Selected Project Experience

Borba 1 Industrial Project NEPA Support (2017 - 2018). Principal Investigator for a cultural resources study to support the development of an industrial property in San Bernardino County that included federal permitting. Oversaw preparation of a records search, archival research, preparation of historic context data, consultation with the Native American Heritage Commission (NAHC), and an archaeological survey of the property. Coordinated with the Gabrieleno Band of Mission Indians – Kizh Nation to provide a Native American monitor during survey. A marine shell scatter and two historic built environment resources, a historic residence and the historic Tedama Cattle Farm, were identified during the study. The Cucamonga Creek Channel, a U.S. Army Corps of Engineers (USACE) public works facility, and the Merrill Avenue Bridge, were also identified within the project site; research was performed to determine the age of channelization. Prepared a technical report to comply with Section 106 of the National Historic Preservation Act (NHPA), as amended, in support of Section 404 Nationwide Permit and Section 408 permission. Work performed for WestLAND Group, Inc., with USACE as the lead agency.

Moulton Niguel Water District Pipeline Alignment at I-5 and Oso Creek (2017 - 2018). Principal Investigator for the replacement of existing potable water (PW) and recycled water (RW) pipelines by Moulton Niguel Water District (MNWD). Supervised the completion of background research and constraints analysis, Native American coordination, cultural resources survey, coordination with MNWD, and report preparation. Work performed as a subconsultant to GHD, with MNWD as the lead agency.

Education

Master of Science, Applied Geographical Information Science, Northern Arizona University, 2008

Bachelor of Arts, Anthropology, University of California, San Diego, 2001

Bachelor of Science, Biological Psychology, University of California, San Diego, 2001

Registrations/ Certifications

Register of Professional Archaeologists, The Register of Professional Archaeologists #16436, 2008

County of Riverside, Approved Cultural Resources Consultant, 2017

County of San Diego, Approved CEQA Consultant for Archaeological Resources, 2019

Padre Dam Municipal Water District East County Advanced Water Purification Program (2018 - 2020). Senior Archaeologist for cultural resources inventory and assessment of approximately 10 miles of pipeline. The East County Advanced Water Purification project proposes to increase the region's supply of potable water. Duties included preparation of a cultural resources study, assisting with community outreach with regard to the historic resources, and working with the agencies and interested parties to develop appropriate measures to avoid or minimize impacts. Work performed for Kennedy/Jenks Consultants, Inc., with Padre Dam Municipal Water District as the lead agency and Helix Water District, the County of San Diego, and the City of El Cajon as participating agencies.

La Salina Sewer Lift Station Design and Wastewater Treatment Plant Decommissioning (2018 - 2019). Principal Investigator for constructing new (and upgraded) wastewater conveyance facilities (including the Buccaneer Lift Station and Force Main), upgrading existing stormwater treatment facilities, and demolition and decommissioning the existing La Salina WWTP in the City of Oceanside in northern San Diego County. The project also includes constructing an approximately three-mile Buccaneer Force Main along Oceanside Boulevard. Responsibilities included the coordination and oversight of the cultural resources study, which included a records search, Sacred Lands File search, a review of historic aerial photographs and maps, and a field survey for both archaeological and built environment resources. Work performed for the City of Oceanside.

CEQA/NEPA Support for Ontario International Airport (2018 - 2019). Cultural Resources Specialist for CEQA compliance for the construction and operation of an air cargo facility in the northwest quadrant of Ontario International Airport. Responsible for coordination of a records search and Sacred Land File search from the Native American Heritage Commission and providing a cultural analysis on proposed project. Work performed for Ontario International Airport Authority.

San Elijo Joint Powers Authority Roadway and Trail Addendum and Permitting (2018 - 2019). Principal Investigator for a cultural resources study for the San Elijo Water Reclamation Facility Upgrades Project, located adjacent to San Elijo lagoon in western San Diego County. The study was conducted in support of the development of a lighted shared-use trail within the San Elijo Water Reclamation Facility (SEWRF) property and entrance improvements along the SEWRF frontage. Responsibilities included the coordination and oversight of a records search, Sacred Lands File search, Native American outreach, a review of historic aerial photographs and maps, a pedestrian survey, archaeological testing, and technical reports. The study was conducted for compliance with the California Environmental Quality Act (CEQA) and Section 106 of the National Historic Preservation Act (NHPA) in support of a Nationwide Permit authorization from the U.S. Army Corps of Engineers (USACE). Work performed as a subconsultant to Kimley-Horn & Associates, with the San Elijo Joint Powers Authority as CEQA lead agency.

Theodore G. Cooley, RPA

Senior Archaeologist

Summary of Qualifications

Mr. Cooley has over 45 years of experience in archaeological resource management. He has directed test and data recovery investigations, monitoring programs, and archaeological site surveys of large and small tracts, and has prepared reports for various cultural resource management projects. He is well-versed in National Historic Preservation Act, National Environmental Policy Act (NEPA), and California Environmental Quality Act (CEQA) regulations and processes. Mr. Cooley's experience also includes Native American consultation for monitoring of archaeological field projects, including some with human remains and reburial-related compliance issues.

Selected Project Experience

8016 Broadway Self Storage Project (2019 - Present). Senior Archaeologist for a Phase I pedestrian survey and cultural resource inventory program of the Lemon Grove Self-Storage project located in the City of Lemon Grove, San Diego County. Involvement included participation in the analysis of the results from the survey program and co-authorship of the technical report. Work performed for the Summit Environmental Group, Inc.

Briggs Road Walton Development Project (Assessor's Parcel Number 461-170-001) (2019 - Present). Senior Archaeologist for a Phase I pedestrian survey and cultural resource inventory program of the Briggs Road Residential project located in Riverside County. Involvement included participation in the analysis of the results from the survey program and co-authorship of the technical report. Work performed for the Walton International Group, LLC.

Brown Field and Montgomery Field Airport Master Plans (2019 - Present). Senior Archaeologist for Phase I cultural resource inventory and pedestrian survey programs at the Brown Field Municipal Airport and the Montgomery-Gibbs Executive Airport, in the City of San Diego, in support of updating of the Airport Master Plan and its Programmatic Environmental Impact Report. Involvement included participation in the analysis of the results from the survey programs and co-authorship of the technical reports. Work performed as a subconsultant to C&S Companies, with the City of San Diego as the lead agency.

Cubic Redevelopment Environmental Consulting (2019 - Present). Senior Archaeologist for a Phase I pedestrian survey and cultural resource inventory and assessment program in support of a 20-acre redevelopment project, located in the community of Kearny Mesa, City of San Diego. Involvement included participation in the analysis of the results from the survey program and preparation of the technical report. Work performed for Cubic Redevelopment Environmental Consulting, with the City of San Diego as lead agency.

Education

Master of Arts, Anthropology, California State University, Los Angeles, 1982

Bachelor of Arts, Anthropology, California State College, Long Beach, 1970

Registrations/ Certifications

Register of Professional Archaeologists #10621, 2019

City of San Diego, Certified Principal Investigator for Monitoring Projects

County or Riverside, Certified Cultural Resources Consultant Principal Investigator

County of Orange, Certified Cultural Resources Consultant Principal Investigator

County of San Diego, Approved Consultant for Archaeological Resources

Los Angeles, Ventura, San Luis Obispo, and Santa Barbara Approved Consultant

Theodore G. Cooley, RPA

Senior Archaeologist

French Valley 303 Project (2019 - Present). Senior Archaeologist for an archaeological construction monitoring program for the French Valley 303 Site residential development project, located in the French Valley area of unincorporated Riverside County. Involvement included participation in the analysis of the results from the monitoring program and co-authorship of the technical report. Work performed for Pulte Home Co., LLC.

Hiser Property Project (2019 - Present). Senior Archaeologist for a due diligence study prepared to summarize potential cultural resources constraints to the 9.2-acre Hiser Property development project, located in the Mission Gorge area of the City of Santee, San Diego County. The study consisted of background research including a record search and limited archival study, a field survey, and a review of the Sacred Lands File from the Native American Heritage Commission (NAHC). Involvement included participation in the analysis of the results and preparation of a summary letter report of the potential cultural resources-related constraints to the planned development. Work performed for KB Home.

Ponto Hotel Technical Studies (2019 - Present). Senior Archaeologist for a cultural resources assessment study for the Ponto Hotel development project in the City of Carlsbad, San Diego County, California. Involvement included participation in the analysis of the results from the assessment program and preparation of the technical report. Work performed for Kam Sang Company, with the City of Carlsbad as the lead agency.

R.M. Levy Water Treatment Plant Sewer Replacement (2019 - Present). Senior Archaeologist for a Phase I pedestrian survey and cultural resource inventory and assessment program in support of a water treatment plant, sewer pipeline, replacement project, located in the community of Lakeside, San Diego County. Involvement included participation in the analysis of the results from the survey program and preparation of the technical report. Work performed for HELIX Water District.

Salt Bay District Specific Plan EIR (2019 - Present). Senior Archaeologist for a Phase I pedestrian survey and cultural resource inventory program in support of the 46.6-acre Salt Bay Design District Specific Plan mixed-use wholesale/retail shopping and light industrial development project, in the cities of San Diego and Chula Vista. Involvement included participation in the analysis of the results from the survey program and co-authorship of the technical report. Work performed for M. & A. Gabaee, with the City of San Diego as lead agency.

San Jacinto Property Project (2019 - Present). Senior Archaeologist for a Phase I pedestrian survey and cultural resource inventory program of the 214 residential project located in Riverside County. Involvement included participation in the analysis

of the results from the survey program and co-authorship of the technical report. Work performed for the Walton International Group, LLC.

San Elijo Joint Powers Authority Roadway and Trail Addendum and Permitting (2019 - Present). Senior Archaeologist for Phase I cultural resource inventory, pedestrian survey, and resource testing at the San Elijo Water Reclamation Facility adjacent to San Elijo lagoon, in San Diego County, in support of the preparation by the San Elijo Joint Powers Authority of a Roadway and Trail Addendum for upgrades to the facility requiring verification of Nationwide Permit authorization from the U.S. Army Corps of Engineers (USACE). Involvement included participation in the analysis of the results from the survey and testing program and co-authorship of the technical report. Work performed as a subconsultant to Kimley-Horn & Associates, with the San Elijo Joint Powers Authority as lead agency.

Sycamore & Watson Project (2019 - Present). Senior Archaeologist for an archaeological construction monitoring program for the Sycamore & Watson residential development project, located in City of Vista, San Diego County. Involvement included participation in the analysis of the results from the monitoring program and preparation of the technical report. Work performed for Meritage Homes.

Sycamore Canyon/Goodan Ranch Public Access Plan IS/MND (2019 - 2019). Senior Archaeologist for Phase I pedestrian survey and cultural resource inventory in support of the preparation by the County of San Diego County Parks Department of a Public Access Plan for the Sycamore Canyon/Goodan Ranch Preserve located in coastal foothills of unincorporated west-central San Diego County. Involvement included participation in the analysis of the results from the survey program and co-authorship of the technical report. Work performed for the County of San Diego.

Sycuan/Sloane Canyon Trail IS/MND (2019). Senior Archaeologist for Phase I pedestrian survey and cultural resource inventory in support of the preparation by the County of San Diego County Department of a Parks and Recreation for the Sycuan/Sloane Canyon Trail project located in the coastal foothills of unincorporated southwestern San Diego County. Involvement included participation in the analysis of the results from the survey program and co-authorship of the technical report. Work performed for the County of San Diego.

The Enclave at Delpy's Corner Project (2019 - Present). Senior Archaeologist for a cultural resources monitoring and data recovery program in support of a proposed 124-unit townhome development project, in the City of Vista, San Diego County. Involvement included participation in the analysis of the prehistoric lithic artifacts and preparation of technical report sections containing the results of these analyses. Work performed for CalAtlantic Homes.

Kassie Sugimoto, M.A.

Cultural Resources Project Manager I

Summary of Qualifications

Ms. Sugimoto has 10 years of professional experience in archaeology. She has worked in Southern California archaeology for 6 years, including work in historic archaeology, prehistoric archaeology, human osteology, and close coordination with Native American tribes. She has directed test and data recovery investigations, monitoring programs, and archaeological site surveys, and has prepared reports for various cultural resource management projects. She is well-versed in National Historic Preservation Act, National Environmental Policy Act (NEPA), and California Environmental Quality Act (CEQA) regulations and processes.

Selected Project Experience

Darco Project (TTM 31589) (2021). Archaeologist for cultural services provided in support of the Darco Residential Development Project, located in the City of Moreno Valley (City), Riverside County, California. HELIX was contracted by D.R. Horton to provide a Phase I archaeological study to meet the requirements of the City. The study included a records search from the Eastern Information Center; a Sacred Lands File search through the NAHC; tribal outreach with the local Native American community, as identified by the NAHC; review historic maps and aerial photographs of the project area; a field survey of approximately 36 acres; and preparation of a cultural resources survey report detailing the methods and results of the study, as well as recommendations.

Morningstar Village (2021). Archaeologist for cultural services provided in support of the Morningstar Village Project located in the community of French Valley, unincorporated Riverside County, California. HELIX was contracted by Morningstar Village LLC to provide a cultural resource study in support of a 404 Pre-Construction Notification application for a Nationwide Permits; the report addressed both CEQA and Section 106 of the National Historic Preservation Act to support agency permitting. The study included a records search from the Eastern Information Center; a Sacred Lands File search through the NAHC; tribal outreach with the local Native American community, as identified by the NAHC; review historic maps and aerial photographs of the project area; a field survey of the United States Army Corp of Engineers (USACE) permit area; and preparation of a cultural resources report detailing the methods and results of the study, as well as recommendations. An additional letter report was prepared for the USACE to summarize the cultural resources within the USACE permitting area, and additional tribal outreach was conducted at the request of USACE.

Education

Master of Arts, Anthropology, North Carolina State University, Raleigh, 2015

Bachelor of Arts, Archaeology, California State University Dominguez Hills, 2013

Professional Affiliations

Member, Project Management Institute (PMI), 2019-Present

Member, Society for American Archaeology, 2013-Present

Kassie Sugimoto, M.A.

Cultural Resources Project Manager I

Oak Valley Town Center (2021). Archaeologist for cultural services provided in support of the Oak Valley Town Center Project located in the City of Calimesa (City), Riverside County (County), California. HELIX was contracted by Oak Valley Development Company to provide a Phase 1 cultural resources study to the standards of the City of Calimesa; the report will address both CEQA and Section 106 of the National Historic Preservation Act, to support agency permitting. The study included a records search from the Eastern Information Center; a Sacred Lands File search through the NAHC; tribal outreach with the local Native American community, as identified by the NAHC; review historic maps and aerial photographs of the project area; conduct a field survey of approximately 244 acres; and prepare a cultural resources report detailing the methods and results of the study, as well as recommendations.

Sandalwood Commercial Development Project (2021). Archaeologist for cultural services provided in support of the Sandalwood Commercial Development Project, located in the City of Calimesa (City), Riverside County, California. HELIX was contracted by J&T Investments to provide a Phase I archaeological study to meet the requirements of the City. The study included a records search from the Eastern Information Center; a Sacred Lands File search through the NAHC; tribal outreach with the local Native American community, as identified by the NAHC; review historic maps and aerial photographs of the project area; conduct a field survey of approximately 10 acres; and prepare a cultural resources survey report detailing the methods and results of the study, as well as recommendations.

Sky Canyon Sewer Main Extension (2021). Archaeologist for cultural services provided in support of the Sky Canyon Sewer Main Extension Project located in the city of Murrieta, Riverside County, California. A Cultural Resources Monitoring Plan (CRMP) was developed in consultation with the consulting Tribe for the construction of approximately 6,700 linear feet of new gravity-fed 36 inch diameter sewer main proposed by the lead agency, the Eastern Municipal Water District. HELIX provided cultural services, including Native American Outreach and Coordination, development of a CRMP, Cultural Resources Monitoring, and a letter report upon completion of the archaeological monitoring program.

McCanna Hills Addendum to an Environmental Impact Report, Riverside County, California. Archaeologist for preparation of an addendum to EIR319 previously prepared for the McCanna Ranch Specific Plan near Lake Perris in western Riverside County.

Archaeological Studies for a Riverside County Parcel (APN 436-360-009), Riverside County, California. Project Manager and Project Archaeologist for execution and management of the project contract with the client, conducted field and archival research, prepared technical documents for the City of San Jacinto. Work performed for Panorama Properties, Inc.

Lincoln Van Buren Project, Riverside, California. Archaeologist for Phase I studies for the development of a gas station. Field archaeologist for archaeological survey. Work performed for Psomas.

University of California Riverside (UCR), Riverside, California. Archaeologist for Phase I studies for as needed contract. Field archaeologist for archaeological and historic surveys. Work performed for Psomas.

Cultural Resources Studies for the City of San Jacinto, San Jacinto, California. Project Manager and Project Archaeologist. Executed and managed the project's contract with the client, conducted field and archival research, prepared technical documents for the City for Assessor Parcel Numbers 439-112-032, 033, 034, 036, 003, 004, 007, 008, and 009. Work performed for Mark Development.

Trevor Gittelhough, RPA

Cultural Resources Assistant Project Manager

Summary of Qualifications

Trevor H. Gittelhough is an archaeological assistant project manager, specializing in underwater cultural resources, with over a decade of experience in archaeology, including both cultural resources management and academic projects. This experience includes site monitoring; surveys and excavations; laboratory sorting, cataloging, and analysis; and conservation. He has conducted environmental, paleontological, and cultural resources work throughout California, Nevada, Oregon, and Florida in support of compliance with California Environmental Quality Act (CEQA), National Environmental Policy Act (NEPA) and Sections 106 and 110 of the National Historic Preservation Act (NHPA) for public and private sector clients including a range of local, state, and federal agencies such as Southern California Edison, the United States Navy and Air Force, Caltrans, and FEMA.

He has experience in team management in the terrestrial and underwater archaeological management sectors, with expertise in implementation of mitigation and monitoring projects, report production, and coordination with Indigenous groups. Underwater and Indigenous archaeology are Mr. Gittelhough's specialties, which are enhanced by his skill and experience in sailing, diving, and prehistoric technology construction. His research interests include maritime technologies and practices, settlement patterns, trade and exchange, colonial interactions, prehistoric technologies, and anthropological/ archaeological theory. In addition, he has expertise in illustration of artifacts, stratigraphic and excavation unit profiles, site maps, GIS, remote sensing, and underwater excavation and mapping techniques.

Mr. Gittelhough's technical skills include terrestrial and submerged archaeological survey, excavation, and site testing. He has authored numerous site records and technical reports detailing the results of cultural resources work, as well as academic articles. He has also had thorough training in artifact analysis and specializes in lithic analysis and maritime conservation. His academic background includes advanced training in conservation and underwater archaeology. He has extensive training at the graduate level and earned his M.A. from East Carolina University. Mr. Gittelhough is Registered Professional Archaeologist, a member of the Society for American Archaeology (SAA), a member of the Society for Historical Archaeology (SHA), and a member of the Society for California Archaeology (SCA).

Selected Project Experience

Bouquet Canyon Road Project, Los Angeles County, CA (2021). Cultural Resource Specialist serving as lead archaeological monitor and technical report writer for this project in the City of Santa Clarita. This work included monitoring all ground-disturbing

Education

Master of Arts, Maritime Studies, East Carolina University, 2019

Bachelor of Arts, Archaeology, University of California, Santa Barbara, 2011

Registrations/ Certifications

Register of Professional Archaeologists, 2018

HAZWOPER Certification; 2018 – 2021

ESRI GIS Certification
AAUS Scientific Diver
Red Cross First AID
Red Cross CPR DAN
Divers First Aid

Professional Affiliations

Society for American Archaeology
Society for Historical Archaeology
Society for California Archaeology

activities associated with geotechnical studies, such as drilling and trenching. Monitoring was also undertaken during ground penetrating radar studies of portions of the project area.

California Crossings, Attisha Trust Parcel, San Diego County, CA (2021). Cultural Resource Specialist for a cultural resources study in support of biological mitigation measures (burrowing owl habitat creation) for the proposed Project in the County of San Diego. Prepared an archaeological resources assessment in compliance with state and federal regulations. Scope included a cultural resources records search, review of historic maps and aerials, and preparation of a technical report.

Enchanted Hills Park Project, Perris, Riverside County, CA (2021). Cultural Resource Specialist for a monitoring program during initial sitework for this project in the City of Perris, in Riverside County. Prepared monitoring letter report.

Mission Basin Groundwater Purification Facility Well Expansion and Brine Minimization Project, Oceanside, San Diego County, CA (2021). Cultural Resource Specialist for a cultural resources study in support of the proposed Project in the City of Oceanside, in northern San Diego County. Prepared a monitoring results memo for monitoring of geotechnical investigations and assisted with preparation of the cultural resources technical report in compliance with state and federal regulations. Scope included a cultural resources records search, preparation of a letter report/memo, and assistance with the technical report.

Oak Shores/Lake Morena Views MWC Consolidation Project, San Diego County, CA (2021). Cultural Resource Specialist for a cultural resources study in support of the proposed Project in eastern San Diego County. Assisted with preparation of a cultural resources technical report in compliance with state and federal regulations, as well as State Water Resources Control Board. Scope included a cultural resources records search, review of historic maps and aerials, and assistance with preparation of a technical report.

Archaeological Monitoring for the P-586 Missile Assembly Building - San Nicolas Island, Ventura County, CA (2021). Cultural Resource Specialist serving as archaeological monitor and technical report writer. This work included monitoring all ground-disturbing activities, including grubbing, grading, and trenching. Monitoring included close involvement with United States Navy personal and Tribal Members and Observers.

Shady View Residential Project Environmental Impact Report, Chino Hills, San Bernardino County, CA (2021). Cultural Resource Specialist for a cultural resources study in support of the proposed Project in the City of Chino Hills in San Bernardino County. Assisted in the preparation of the technical report in compliance with state and federal regulations. Project scope included a cultural resources records search, review of historic maps and aerials, field survey, and preparation of a technical report.

Trevor Gittelhough, RPA

Cultural Resources Assistant Project Manager

Previous Project Experience

Los Angeles County Natural History Museum Center for History and Cultural Project, Los Angeles County, CA. Assistant Project Manager for a cultural resources study in support of the proposed Project in the downtown area of the City Los Angeles. Prepared an archaeological and tribal cultural resources assessment in compliance with CEQA, specifically Assembly Bill 52. Scope included a cultural resources records search, review of historic maps and aerials, and preparation of a technical study for submittal to the Department of City Planning.

Environmental Services Support for the Villages at The Alhambra Project, Los Angeles County, CA. Assistant Project Manager for a cultural resources study in support of the proposed Project in the downtown area of the City Los Angeles. Prepared an archaeological and tribal cultural resources assessment in compliance with CEQA, specifically Assembly Bill 52. Scope included a cultural resources records search, review of historic maps and aerials, and preparation of a technical study for submittal to the Department of City Planning.

Tierra Crossing Tribal Cultural Resource and Archaeological Assessment, Los Angeles, CA. Assistant Project Manager for a cultural resources study in support of the proposed Project in the downtown area of the City Los Angeles. Prepared an archaeological and tribal cultural resources assessment in compliance with CEQA, specifically Assembly Bill 52. Scope included a cultural resources records search, review of historic maps and aerials, and preparation of a technical study for submittal to the Department of City Planning.

Tribal Cultural Resources Assessment for the 17346 Sunset Project, Los Angeles, CA. Assistant Project Manager for a cultural resources study in support of the proposed Project in the downtown area of the City Los Angeles. Prepared a tribal cultural resources assessment in compliance with CEQA, specifically Assembly Bill 52. Scope included a cultural resources records search, review of historic maps and aerials, and preparation of a technical study for submittal to the Department of City Planning.

James Turner, RPA

Staff Archaeologist

Summary of Qualifications

Mr. Turner is a Registered Professional Archaeologist (RPA) with a Master's degree in Anthropology and field and college-level teaching experience in archaeology. He is experienced in Section 106, the Native American Graves Protection and Repatriation Act (NAGPRA), and writing detailed reports. Mr. Turner has archaeological research and fieldwork expertise throughout southern California. He has also received training in identifying and analyzing animal remains in archaeological contexts, historic artifact identification, and technical writing. Mr. Turner's experience meets the Secretary of the Interior's Professional Qualification Standards for archaeology.

Selected Project Experience

eTS 43472 "Gold Mine" Monitoring (2020). Archaeologist for an erosion control and repair project in the community of Julian. Conducted cultural resource monitoring and report preparation. Work performed for San Diego Gas & Electric.

Aliso Creek Canyon Restoration Project (2020). Archaeologist for an erosion repair project in Lake Forest. Conducted a field survey of the project area, performed background research, and produced a cultural resources report. Work performed for the Orange County Department of Public Works.

Broadway Channel Improvements - Phase A (2020 -). Archaeologist for an earthen channel improvement project in the city of El Cajon. Performed background research and prepared cultural resource survey report. Work performed for City of El Cajon.

Clairemont Community Plan Update EIR Ph1 (2020). Archaeologist for the Clairemont Community Plan Update. Performed background research and assisted with preparing the Community Plan Update cultural resources section. Work performed for the City of San Diego.

Cordial Road Pipeline (2020). Archaeologist for a pipeline replacement project in the unincorporated portion of the City of El Cajon. Performed background research and field survey. Other responsibilities included the production of a letter report detailing the methods and results of the survey, as well as the completion of a site record update to submit to the South Coastal Information Center. Work performed for the Padre Dam Municipal Water District.

Carmel Mountain Road Life Sciences Project (2020). Archaeologist for a proposed commercial development project in the Torrey Hills Community Plan area.

Education

Master of Arts, Anthropology, San Diego State University, 2018

Bachelor of Arts, Biology and Anthropology, San Diego State University, 2015

Registrations/ Certifications

Registered Professional Archaeologist #17338

Professional Affiliations

Society for Historical Archaeology

Society for California Archaeology

Responsibilities included performing background and archival research and producing an archaeological resources report. Work performed for Allen Matkins Leck Gabme Mallory & Natsis, LLP.

Draft EIS/Overseas EIS - Disposal of Decommissioned, Defueled Ex-Enterprise (CVN 65) & Associated Naval Reactor Plants (2020 -). Archaeologist for the Draft EIS for the disposal of the Navy ex-Enterprise. Responsible for background research and citation management and assisted with document preparation. Work performed for the United States Navy as a subconsultant to ManTech.

Eastlake Village Park (2020). Archaeologist for a telecommunication project in the community of Eastlake in the City of Chula Vista. Conducted cultural resource monitoring for the drilling of a cassion hole. Work performed for Terracon.

General Coatings (2020). Archaeologist for a due diligence project for the possible future expansion of the General Coatings property. Conducted background research, which included analyzing a records search and viewing historic maps and aerial photographs of the project area. Additional responsibilities included performing a field survey of the project area and producing a cultural resources due diligence report. Work performed for General Coatings.

Lake Rancho Viejo Environmental Consulting (2020). Archaeologist for a cultural resources survey for a proposed housing development in the community of Fallbrook in northern San Diego County. Conducted background research and report preparation. Work performed for Q Technology Direct LLC with County of San Diego as the lead agency.

Mtn View Connector Pipeline - Cultural (2020). Archaeologist for a waterline replacement project in the community of Alpine. Conducted cultural resource monitoring and prepared the final monitoring report. Work performed for Padre Dam Municipal Water District.

Salt Bay Design District Specific Plan EIR (2020). Archaeologist for a mixed-use development project, which proposes to include wholesale/retail shopping and light industrial uses. Participated in an archaeological testing program and produced artifact tables for report. Work performed for M & A Gabaee.

Santa Ysabel Trail (2020 -). Staff Archaeologist for a proposed 3 mile hiking trail in the unincorporated community of Julian. Performed background research, participated in the cultural resource survey, and contributed to the cultural resources survey report. Work performed for the County of San Diego Parks and Recreation Department.

Appendix B

Records Search;
Figure 5, Resources within a Half Mile
(Confidential, Bound Separately)

Appendix C

Native American Correspondence
(Confidential, Bound Separately)

Appendix D

Survey Results and DPR forms;
Figure 6, Site P-33-015300
(Confidential, Bound Separately)

Appendix D

Geotechnical Engineering Investigation

GEOTECHNICAL • ENVIRONMENTAL • GEOLOGY • MATERIALS TESTING & INSPECTION • FORENSIC • LABORATORY

SALEM
engineering group, inc.

GEOTECHNICAL ENGINEERING INVESTIGATION W/ GEOLOGIC HAZARD STUDY

PROPOSED FUELING STATION
SANDALWOOD DRIVE & 7TH STREET
CALIMESA, CALIFORNIA

SALEM PROJECT NO. 3-221-0096
MARCH 3, 2021

PREPARED FOR:

MS. CLAUDIA GRAJEDA
J&T MANAGEMENT, INC.
139 RADIO ROAD
CORONA, CA 92879

PREPARED BY:

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March 3, 2021 Project No. 3-221-0096

Ms. Claudia Grajeda
J&T Management
139 Radio Road
Corona, CA 92879

SUBJECT: GEOTECHNICAL ENGINEERING INVESTIGATION
W/ GEOLOGIC HAZARD STUDY
PROPOSED FUELING STATION
SANDALWOOD DRIVE & 7TH STREET
CALIMESA, CALIFORNIA

Dear Ms. Grajeda:

At your request and authorization, SALEM Engineering Group, Inc. (SALEM) has prepared this Geotechnical Engineering Investigation report for the Proposed Fueling Station to be located at the subject site.

The accompanying report presents our findings, conclusions, and recommendations regarding the geotechnical aspects of designing and constructing the project as presently proposed. In our opinion, the proposed project is feasible from a geotechnical viewpoint provided our recommendations are incorporated into the design and construction of the project.

We appreciate the opportunity to assist you with this project. Should you have questions regarding this report or need additional information, please contact the undersigned at (909) 980-6455.

Respectfully Submitted,

SALEM ENGINEERING GROUP, INC.

Ibrahim Foud Ibrahim, PE
Senior Managing Engineer
RCE 86724

Clarence Jiang, GE
Senior Geotechnical Engineer
RCE 52762 / RGE 2549

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APPENDIX C – EARTHWORK AND PAVEMENT SPECIFICATIONS

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GEOTECHNICAL ENGINEERING INVESTIGATION
W/ GEOLOGIC HAZARD STUDY
PROPOSED FUELING STATION
SANDALWOOD DRIVE & 7TH STREET
CALIMESA, CALIFORNIA

1. PURPOSE AND SCOPE

This report presents the results of our Geotechnical Engineering Investigation with Geologic Hazard Study for the Proposed Fueling Station to be located near the intersection of Sandalwood Drive and 7th Street in Calimesa, California (see Figure 1, Vicinity Map).

The purpose of our geotechnical engineering investigation was to observe and sample the subsurface conditions encountered at the site, and provide conclusions and recommendations relative to the geotechnical aspects of constructing the project as presently proposed. The scope of this investigation did not include a slope stability analysis.

The scope of this investigation included a field exploration, percolation testing, laboratory testing, engineering analysis and the preparation of this report. Our field exploration (drilling) was performed on February 9 and 10, 2021 and included the drilling of ten (10) small-diameter soil borings to a maximum depth of 34½ feet at the site. Additionally, two (2) percolation tests were performed at depths of approximately 7 and 8 feet below existing grade. The locations of the soil borings and percolation tests are depicted on Figure 2, Site Plan. A detailed discussion of our field investigation and exploratory boring logs are presented in Appendix A.

Laboratory tests were performed on selected soil samples obtained during the investigation to evaluate pertinent physical properties for engineering analyses. Appendix B presents the laboratory test results in tabular and graphic format. The recommendations presented herein are based on analysis of the data obtained during the investigation and our experience with similar soil and geologic conditions. If project details vary significantly from those described herein, SALEM should be contacted to determine the necessity for review and possible revision of this report. Earthwork and Pavement Specifications are presented in Appendix C. If text of the report conflict with the specifications in Appendix C, the recommendations in the text of the report have precedence.

2. PROJECT DESCRIPTION

Based on the information provided to us, we understand that the proposed development of the site will include construction of a fueling station with a 3,849 square-foot Convenient Store, a 2,000 square-foot Quick Service Restaurant, a 4-pump vehicle canopy, a 10-pump semi-truck canopy, a CAT scale and underground storage tanks, with associated parking and landscaping. Maximum wall load is expected to be

on the order of 5 kips per linear foot. Maximum column load is expected to be on the order of 100 kips. Floor slab soil bearing pressure is expected to be on the order of 150 psf.

A site grading plan was not available at the time of preparation of this proposal. As the existing is gently sloping with a ditch along the northern boundary and bisecting the northeast portion of the site, we anticipate that cuts and fills during earthwork will be moderate in order to provide a level building pad and positive site drainage. In the event that changes occur in the nature or design of the project, the conclusions and recommendations contained in this report will not be considered valid unless the changes are reviewed and the conclusions of our report are modified. The site configuration and locations of proposed improvements are shown on the Site Plan, Figure 2.

3. SITE LOCATION AND DESCRIPTION

The subject site is located on the east side of 7th Street and approximately 350 north of Sandalwood Drive in Calimesa, California (See Vicinity Map, Figure 1). The Assessor Parcel Number (APN) of the property is 411-210-024 which comprises an area of 9.33 acres. The project site is located within the southern portion of the property and encompasses approximately 3.74 acres.

At the time of our field exploration, the site was vacant land covered with native vegetation. Overhead power lines run along the west boundary of the site. Based on available aerial photographs, the site has been vacant since at least 1996. A ravine existed on the northern boundary of the site until site was graded sometime in 2009 and 2010. The ravine was filled and brought to grade with the exception of northeast corner of the site adjacent to the drainage culvert. The site is gently sloping to the west with elevations ranging from approximately 2,399 to 2,386 feet above mean sea level based on Google Earth imagery. The area adjacent to the drainage culvert contains steeper slopes, with elevations ranging from approximately 2,392 to 2,381 feet above mean sea level based on Google Earth imagery.

4. FIELD EXPLORATION

Our field exploration consisted of site surface reconnaissance and subsurface exploration. The exploratory test borings (B-1 through B-10) were drilled on February 9 and 10, 2021 in the areas shown on the Site Plan, Figure 2. The test borings were advanced with 6½-inch diameter hollow stem augers rotated by a truck-mounted CME 45C drill rig. The test borings were extended to a maximum depth of 34½ feet below existing grade. The depth of drilling was limited due to auger refusal on dense soil conditions.

The materials encountered in the test borings were visually classified in the field, and logs were recorded by a field engineer and stratification lines were approximated on the basis of observations made at the time of drilling. Visual classification of the materials encountered in the test borings were generally made in accordance with the Unified Soil Classification System (ASTM D2488).

A soil classification chart and key to sampling is presented on the Unified Soil Classification Chart, in Appendix "A." The logs of the test borings are presented in Appendix "A." The Boring Logs include the soil type, color, moisture content, dry density, and the applicable Unified Soil Classification System symbol. The location of the test borings were determined by measuring from features shown on the Site Plan, provided to us. Hence, accuracy can be implied only to the degree that this method warrants.

The actual boundaries between different soil types may be gradual and soil conditions may vary. For a more detailed description of the materials encountered, the Boring Logs in Appendix "A" should be consulted. Soil samples were obtained from the test borings at the depths shown on the logs of borings. The MCS samples were recovered and capped at both ends to preserve the samples at their natural moisture content; SPT samples were recovered and placed in a sealed bag to preserve their natural moisture content. The borings were backfilled with soil cuttings after the completion of the exploration.

5. LABORATORY TESTING

Laboratory tests were performed on selected soil samples to evaluate their physical characteristics and engineering properties. The laboratory-testing program was formulated with emphasis on the evaluation of natural moisture, density, shear strength, consolidation potential, expansion index, maximum density and optimum moisture determination, and gradation of the materials encountered.

In addition, chemical tests were performed to evaluate the corrosivity of the soils to buried concrete and metal. Details of the laboratory test program and the results of laboratory test are summarized in Appendix "B." This information, along with the field observations, was used to prepare the final boring logs in Appendix "A."

6. GEOLOGIC SETTING

The site is located within the northwestern portion of the San Gorgonio pass within the northernmost portion of the Peninsular Ranges Geomorphic Province. The San Gorgonio Pass is a tectonic physiographic feature that separates the San Bernardino Mountains of the Transverse Ranges on the north and the San Jacinto Mountains on the south. The San Gorgonio Pass is expressed as a narrow notch that cuts through the mountains into the Colorado Desert to the east. Most of the Calimesa's vicinity is underlain by a thick sequence of terrestrial sediments that rest on the basement comprising igneous-metamorphic rocks. Younger alluvium occurs in active channels of San Timoteo Wash and tributary canyons, where the alluvium has been deposited on sediments of San Timoteo Formation.

Based on review of the Geologic Map of the El Casco 7.5' Quadrangle[1], the site is mapped in an area of Old alluvial-fan deposits of the upper to middle Pleistocene era (Qof_2) and Very old alluvial fan deposits of the middle Pleistocene era ($Qvof_3$). The Qof_2 material is described as "sandy, gravelly, and silty sediment deposited by streams that formed alluvial-fan landforms; subunits distinguished on the basis of soil-profile development, relative position in the local terrace-riser succession, and degree of erosional dissection." The $Qvof_3$ material is described as "sandy and gravelly deposits having subunits distinguished from each other on the basis of soil-profile development and relative position in local terrace-riser succession. The materials encountered during drilling are generally similar to those mapped in the vicinity of the site.

[1] Morton, Douglas M., and Matti, Jonathan C. (2015), Geologic Map of the El Casco 7.5' quadrangle, Riverside County, California, Sheet 1 of 3: U.S. Geological Survey, scale 1:24,000.

7. GEOLOGIC HAZARDS

7.1 Faulting and Seismicity

Based on the proximity of several dominant active faults and seismogenic structures, as well as the historic seismic record, the area of the subject site is considered subject to relatively high seismicity. The seismic hazard most likely to impact the site is ground-shaking due to a large earthquake on one of the major active regional faults. Moderate to large earthquakes have affected the area of the subject site within historic time.

There are no known active fault traces in the project vicinity. The project area is not within an Alquist-Priolo Earthquake Fault (Special Studies) Zone and will not require a special site investigation by an Engineering Geologist. Soils on site are classified as Site Class D in accordance with Chapter 16 of the California Building Code. The proposed structures are determined to be in Seismic Design Category E.

To determine the distance of known active faults within 100 miles of the site, we used the United States Geological Survey (USGS) web-based application *2008 National Seismic Hazard Maps - Fault Parameters*. Site latitude is 33.9945° North; site longitude is -117.0605° West. The ten closest active faults are summarized below in Table 7.1.

TABLE 7.1
REGIONAL FAULT SUMMARY

Fault Name	Distance to Site (miles)	Maximum Earthquake Magnitude, M_w
San Jacinto; SBV+SJV+A+CC+B+SM	5.7	7.9
S. San Andreas; PK+CH+CC+BB+NM+SM+NSB+SSB+BG+CO	6.1	8.2
San Jacinto; A+CC+B+SM	7.7	7.6
San Jacinto; SBV	10.3	7.1
S. San Andreas; PK+CH+CC+BB+NM+SM+NSB	14.2	8.0
S. San Andreas; BG+CO	15.1	7.4
Pinto Mtn	19.9	7.3
Cleghorn	21.5	6.8
North Frontal (West)	25.3	7.2
Cucamonga	25.4	6.7

The faults tabulated above and numerous other faults in the region are sources of potential ground motion. However, earthquakes that might occur on other faults throughout California are also potential generators of significant ground motion and could subject the site to intense ground shaking.

7.2 Surface Fault Rupture

The site is not within a currently established State of California Earthquake Fault Zone for surface fault rupture hazards. No active faults with the potential for surface fault rupture are known to pass directly beneath the site. Therefore, the potential for surface rupture due to faulting occurring beneath the site during the design life of the proposed development is considered low.

7.3 Ground Shaking

Seismic coefficients and spectral response acceleration values were developed based on the 2019 California Building Code (CBC). The CBC methodology for determining design ground motion values is based on the Office of Statewide Health Planning and Development (OSHPD) Seismic Design Maps, which incorporate both probabilistic and deterministic seismic ground motion.

Based on the 2019 CBC, a Site Class D represents the on-site soil conditions with standard penetration resistance, N-values, averaging greater than 15 blow per foot but less than 50 blows per foot in the upper 100 feet below site grade. A table providing the recommended design acceleration parameters for the project site, based on a Site Class D designation, is included in Section 9.2.1 of this report.

Based on the Office of Statewide Health Planning and Development (OSHPD) Seismic Design Maps, the estimated design peak ground acceleration adjusted for site class effects (PGA_M) was determined to be 1.075g (based on both probabilistic and deterministic seismic ground motion).

7.4 Liquefaction

Soil liquefaction is a state of soil particles suspension caused by a complete loss of strength when the effective stress drops to zero. Liquefaction normally occurs under saturated conditions in soils such as sand in which the strength is purely frictional. Primary factors that trigger liquefaction are: moderate to strong ground shaking (seismic source), relatively clean, loose granular soils (primarily poorly graded sands and silty sands), and saturated soil conditions (shallow groundwater). Due to the increasing overburden pressure with depth, liquefaction of granular soils is generally limited to the upper 50 feet of a soil profile. However, liquefaction has occurred in soils other than clean sand.

The soils encountered within the depth of our exploration on the project site consisted predominately of loose to dense silty sand with various amounts of clay, clayey sand, and poorly graded sand with silt; and very stiff to hard sandy silt with various amounts of clay, clayey silt with various amounts of sand, silty clay with various amounts of sand, and sandy clay. Low to very low cohesion strength is associated with the sandy soil. A seismic hazard, which could cause damage to the proposed development during seismic shaking, is the post-liquefaction settlement of the liquefied sands. Groundwater was not encountered during this investigation.

The Riverside County Office of Information Technology GIS website: https://gis.countyofriverside.us/Html5Viewer/?viewer=MMC_Public, shows the subject site to be in a low liquefaction potential area (Figure 5, Liquefaction Potential Zone Map). The site was evaluated for the liquefaction potential. The liquefaction potential of the site is considered to be low.

7.5 Lateral Spreading

Lateral spreading is a phenomenon in which soils move laterally during seismic shaking and is often associated with liquefaction. The amount of movement depends on the soil strength, duration and intensity of seismic shaking, topography, and free face geometry. Due to low liquefaction potential at the site, we judge the likelihood of lateral spreading to be low.

7.6 Flood and Dam Inundation

The Riverside County Office of Information Technology GIS website shows the subject site is not located in a potential flood zone (see Figure 6, Flood Zone Map).

7.7 Subsidence/Fissure Potential Zones

The Riverside County Office of Information Technology GIS website shows the subject site is within a susceptible subsidence potential area (see Figure 7, Subsidence Zone Map). SALEM is not aware of subsidence issues in the immediate project site vicinity.

7.8 Collapsible/Expansive or Hydroconsolidatable Soils

Test data in this geotechnical report show that soil sample consolidated approximately 5 and 8¼ percent after a maximum 16.0 ksf load, respectively. Hydroconsolidation (collapse upon wetting) at a load of 2.0 ksf was approximately ¼ percent. Therefore, the on-site soils have minimal collapse potential.

Soil samples collected from surface to the proposed foundation depths are considered to have a low expansion potential and the sample tested returned and Expansion Index value of 29. The proposed site preparation methods recommended on our geotechnical report should address these geotechnical issues and no additional mitigation measures are required.

7.9 Landslides

There are no known landslides at the site, nor is the site in the path of any known or potential landslides. We do not consider the potential for a landslide to be a hazard to this project.

7.10 Wind and Water Erosion

Based on SALEM's soil boring logs for the subject site, surface soils consist predominantly of loose to dense silty sand with various amounts of clay, clayey sand, and poorly graded sand with silt; and very stiff to hard sandy silt with various amounts of clay, clayey silt with various amounts of sand, silty clay with various amounts of sand, and sandy clay. Soils of this composition and consistency have been shown to possess good resistance to wind and water erosion. The site slightly sloping to the west, and therefore water erosion is minimal. The site will be mostly covered by buildings, pavement or landscaping after development, minimizing long-term wind erosion potential.

7.11 Tsunamis and Seiches

The site is not located within a coastal area. Therefore, tsunamis (seismic sea waves) are not considered a significant hazard at the site. Seiches are large waves generated in enclosed bodies of water in response to

ground shaking. No major water-retaining structures are located immediately up gradient from the project site. Flooding from a seismically-induced seiche is considered unlikely.

8. SOIL AND GROUNDWATER CONDITIONS

8.1 Subsurface Conditions

The subsurface conditions encountered appear typical of those found in the geologic region of the site. In general, the soils generally consisted of loose to dense silty sand with various amounts of clay, clayey sand, and poorly graded sand with silt; and very stiff to hard sandy silt with various amounts of clay, clayey silt with various amounts of sand, silty clay with various amounts of sand, and sandy clay.

No significant fill soils were encountered in our test borings during this investigation. However, fill material are anticipated to be present on-site since the site was previously graded. The northern boundary of the site was a ravine prior to grading in 2009 and 2010. The bottom of the ravine could be 15 to 20 feet deeper than the current site grade. Fill material within the previous ravine area is anticipated to be at least 15 to 20 feet thick. Undocumented fill materials are not suitable to support any future structures and should be replaced with Engineered Fill. Verification of the extent of fill should be determined during site grading. The extent and consistency of the fills should be verified during site construction. Prior to fill placement, SALEM Engineering Group, Inc. should inspect the bottom of the excavation to verify the fill condition.

The soils were classified in the field during the drilling and sampling operations. The stratification lines were approximated by the field engineer on the basis of observations made at the time of drilling. The actual boundaries between different soil types may be gradual and soil conditions may vary. For a more detailed description of the materials encountered, the Boring Logs in Appendix "A" should be consulted.

The Boring Logs include the soil type, color, moisture content, dry density, and the applicable Unified Soil Classification System symbol. The locations of the test borings were determined by measuring from feature shown on the Site Plan, provided to us. Hence, accuracy can be implied only to the degree that this method warrants.

8.2 Groundwater

The test boring locations were checked for the presence of groundwater during and after the drilling operations. Free groundwater was not encountered during this investigation. It should be recognized that water table elevations may fluctuate with time, being dependent upon seasonal precipitation, irrigation, land use, localized pumping, and climatic conditions as well as other factors. Therefore, water level observations at the time of the field investigation may vary from those encountered during the construction phase of the project. The evaluation of such factors is beyond the scope of this report.

8.3 Soil Corrosion Screening

Excessive sulfate in either the soil or native water may result in an adverse reaction between the cement in concrete and the soil. The 2014 Edition of ACI 318 (ACI 318) has established criteria for evaluation of sulfate and chloride levels and how they relate to cement reactivity with soil and/or water.

A soil sample was obtained from the project site and was tested for the evaluation of the potential for concrete deterioration or steel corrosion due to attack by soil-borne soluble salts and soluble chloride. The water-soluble sulfate concentration in the saturation extract from the soil sample was detected to be 257 mg/kg. ACI 318 Tables 19.3.1.1 and 19.3.2.1 outline exposure categories, classes, and concrete requirements by exposure class. ACI 318 requirements for site concrete based upon soluble sulfate are summarized in Table 8.3 below.

TABLE 8.3
WATER SOLUBLE SULFATE EXPOSURE REQUIREMENTS

Water Soluble Sulfate (SO_4) in Soil, % by Weight	Exposure Severity	Exposure Class	Maximum w/cm Ratio	Min. Concrete Compressive Strength	Cementations Materials Type
0.0257	Not Severe	S0	N/A	2,500 psi	No Restriction

The water-soluble chloride concentration detected in saturation extract from the soil samples was 44 mg/kg. This level of chloride concentration is considered to be mildly corrosive. It is recommended that a qualified corrosion engineer be consulted regarding protection of buried steel or ductile iron piping and conduit or, at a minimum, applicable manufacturer's recommendations for corrosion protection of buried metal pipe be closely followed.

8.4 Percolation Testing

Two (2) percolation tests (P-1 and P-2) were performed within assumed infiltration areas and were conducted in accordance with the guidelines established by the County of Riverside. The approximate locations of the percolation tests are shown on the attached Site Plan, Figure 2. The boreholes were advanced to the depths shown on the percolation test worksheets. The holes were pre-saturated before percolation testing commenced. Percolation rates were measured by filling the test holes with clean water and measuring the water drops at a certain time interval. The percolation rate data are presented in tabular format at the end of this Report. The difference in the percolation rates are reflected by the varied type of soil materials at the bottom of the test holes. The test results are shown on the table below.

Test No.	Depth (Feet)	Measured Percolation Rate (min/inch)	Infiltration Rate* (inch/hour)	Soil Type**
P-1	8	9.3	**0.91**	Silty SAND (SM)
P-2	7	250.0	**0.01**	Clayey SAND (SC)

*** Tested infiltration Rate = (ΔH 60 r) / (Δt(r + 2H_{avg})), no factor of safety applied**
**** At bottom of drilled holes**

The soil infiltration rate is based on test conducted with clear water. The infiltration rate may vary with time as a result of soil clogging from water impurities. The infiltration rate will deteriorate over time due to the soil conditions and an appropriate factor of safety (FS) shall be applied. SALEM recommends a minimum factor of safety of 3 be used in design. The soils may also become less permeable to

impermeable if the soil is compacted. Thus, periodic maintenance consisting of clearing the bottom of the drainage system of clogged soils should be expected.

The infiltration rate may become slower if the surrounding soil is wet or saturated due to prolonged rainfalls. Additional infiltration tests should be conducted at bottom of the drainage system during construction to verify the infiltration rate. Groundwater, if closer to the bottom of the drainage system, will also reduce the infiltration rate.

The scope of our services did not include a groundwater study and was limited to the performance of infiltration testing and soil profile description, and the submitted data only. Our services did not include those associated with septic system design. Neither did services include an Environmental Site Assessment for the presence or absence of hazardous and/or toxic materials in the soil, groundwater, or atmosphere; or the presence of wetlands. Any statements, or absence of statements, in this report or on any boring logs regarding odors, unusual or suspicious items, or conditions observed, are strictly for descriptive purposes and are not intended to convey engineering judgment regarding potential hazardous and/or toxic assessment. The geotechnical engineering information presented herein is based upon professional interpretation utilizing standard engineering practices. The work conducted through the course of this investigation, including the preparation of this report, has been performed in accordance with the generally accepted standards of geotechnical engineering practice, which existed in the geographic area at the time the report was written. No other warranty, express or implied, is made. Please be advised that when performing infiltration testing services in relatively small areas that the testing may not fully model the actual full scale long term performance of a given site. This is particularly true where infiltration test data is to be used in the design of large infiltration areas such as those proposed for the site. Subsurface conditions, including infiltration rates, can change over time as fine-grained soils migrate. It is not warranted that such information and interpretation cannot be superseded by future geotechnical engineering developments. We emphasize that this report is valid for the project outlined above and should not be used for any other sites.

9. CONCLUSIONS AND RECOMMENDATIONS

9.1 General

9.1.1 Based upon the data collected during this investigation, and from a geotechnical engineering standpoint, it is our opinion that the site is suitable for the proposed construction of improvements at the site as planned, provided the recommendations contained in this report are incorporated into the project design and construction. Conclusions and recommendations provided in this report are based on our review of available literature, analysis of data obtained from our field exploration and laboratory testing program, and our understanding of the proposed development at this time.

9.1.2 The primary geotechnical constraints identified in our investigation is the presence of potential fill material and presence of compressible soils at the site. Recommendations to mitigate the effects of these soils are provided in this report.

9.1.3 No significant fill soils were encountered in our borings. The northern boundary of the site was a ravine prior to grading in 2009 and 2010. The bottom of the ravine could be 15 to 20 feet deeper than the current site grade. Fill material within the previous ravine area is anticipated to be at least 15 to 20 feet thick. Undocumented fill materials are not suitable to support any future

structures and should be replaced with Engineered Fill. Verification of the extent of fill should be determined during site grading. The extent and consistency of the fills should be verified during site construction. Prior to fill placement, SALEM Engineering Group, Inc. should inspect the bottom of the excavation to verify the fill condition.

9.1.4 Surface vegetation consisting of grasses and other similar vegetation should be removed by stripping to a sufficient depth to remove organic-rich topsoil. The upper 6 to 8 inches of the soils containing, vegetation, roots and other objectionable organic matter encountered at the time of grading should be stripped and removed from the surface. Deeper stripping may be required in localized areas. The stripped vegetation, will not be suitable for use as Engineered Fill or within 5 feet of building pads or within pavement areas. However, stripped topsoil may be stockpiled and reused in landscape or non-structural areas or exported from the site.

9.1.5 Tree root systems in the proposed improvement areas should be removed to a minimum depth of 4 feet and to such an extent which would permit removal of all roots. Tree roots removed in parking areas may be limited to the upper 1½ feet of the ground surface. Backfill of tree root excavations is not permitted until all exposed surfaces have been inspected and the Soils Engineer is present for the proper control of backfill placement and compaction. Burning in areas which are to receive fill materials shall not be permitted.

9.1.6 Site demolition activities shall include removal of all surface obstructions not intended to be incorporated into final site design. In addition, underground buried structures and/or utility lines encountered during demolition and construction should be properly removed and the resulting excavations backfilled with Engineered Fill. It is suspected that possible demolition activities of the existing structures may disturb the upper soils. After demolition activities, it is recommended that disturbed soils be removed and/or recompacted.

9.1.7 The near-surface onsite soils are moisture-sensitive and are moderately compressible under saturated conditions. Proposed structures may experience excessive post-obstruction settlement, when the foundation soil become near saturated. The compressible or weak soils should be removed and re-compacted according to the recommendations in the Grading section of this report (Section 9.5).

9.1.8 Additional recommendations for pavement areas, retaining wall proposed on northern boundary, and pavement areas on the northern boundary presented in section 9.5 of this report, should be followed.

9.1.9 Based on the subsurface conditions at the site and the anticipated structural loading, we anticipate that the proposed building may be supported using conventional shallow foundations provided that the recommendations presented herein are incorporated in the design and construction of the project.

9.1.10 SALEM shall be present at the site during site demolition and preparation to observe site clearing/demolition, preparation of exposed surfaces after clearing, and placement, treatment and compaction of fill material.

9.1.11 SALEM's observations should be supplemented with periodic compaction tests to establish substantial conformance with these recommendations. Moisture content of footings and slab subgrade should be tested immediately prior to concrete placement. SALEM should observe foundation excavations prior to placement of reinforcing steel or concrete to assess whether the actual bearing conditions are compatible with the conditions anticipated during the preparation of this report.

9.2 Seismic Design Criteria

9.2.1 For seismic design of the structures, and in accordance with the seismic provisions of the 2019 CBC, our recommended parameters are shown below. These parameters were determined using California's Office of Statewide Health Planning and Development (OSHPD) Seismic Design Map Tool Website (https://seismicmaps.org/) in accordance with the 2019 CBC. The Site Class was determined based on the soils encountered during our field exploration

TABLE 9.2.1
SEISMIC DESIGN PARAMETERS

Seismic Item	Symbol	Value	2016 ASCE 7 or 2019 CBC Reference
Site Coordinates (Datum = NAD 83)		33.9945 Lat -117.0605 Lon	
Site Class	--	D	ASCE 7 Table 20.3-1
Soil Profile Name	--	Stiff Soil	ASCE 7 Table 20.3-1
Risk Category	--	II	Table 1604.5
Site Coefficient for PGA	F_{PGA}	1.1	ASCE 7 Table 11.8-1
Peak Ground Acceleration (adjusted for Site Class effects)	PGA_M	1.075	ASCE 7 Equation 11.8-1
Seismic Design Category	SDC	E	CBC Table 1613.2.5
Mapped Spectral Acceleration (Short period - 0.2 sec)	S_S	2.296 g	CBC Figure 1613.2.1(1-8)
Mapped Spectral Acceleration (1.0 sec. period)	S_1	0.817 g	CBC Figure 1613.2.1(1-8)
Site Class Modified Site Coefficient	F_a	1.0	CBC Figure 1613.2.3(1)
Site Class Modified Site Coefficient	F_v	1.7*	CBC Figure 1613.2.3(2)
MCE Spectral Response Acceleration (Short period - 0.2 sec) $S_{MS} = F_a S_S$	S_{MS}	2.296 g	CBC Equation 16-36
MCE Spectral Response Acceleration (1.0 sec. period) $S_{M1} = F_v S_1$	S_{M1}	1.389 g*	CBC Equation 16-37
Design Spectral Response Acceleration $S_{DS}=⅔S_{MS}$ (short period - 0.2 sec)	S_{DS}	1.530 g	CBC Equation 16-38
Design Spectral Response Acceleration $S_{D1}=⅔S_{M1}$ (1.0 sec. period)	S_{D1}	0.926 g*	CBC Equation 16-39
Short Term Transition Period (S_{D1}/S_{DS}), Seconds	T_S	0.605	ASCE 7-16, Section 11.4.6
Long Period Transition Period (seconds)	T_L	8	ASCE 7-16, Figure 22-14

*** Determined per ASCE Table 11.4-2 for use in calculating T_S only.**

9.2.2 Site Specific Ground Motion Analysis was not included in the scope of this investigation. Per ASCE 11.4.8, structures on Site Class D with S_1 greater than or equal to 0.2 may require Site Specific Ground Motion Analysis. However, a site specific motion analysis may not be required based on Exceptions listed in ASCE 11.4.8. The Structural Engineer should verify whether Exception No. 2 of ASCE 7-16, Section 11.4.8, is valid for the site. In the event that a site specific ground motion analysis is required, SALEM should be contacted for these services.

9.2.3 Conformance to the criteria in the above table for seismic design does not constitute any kind of guarantee or assurance that significant structural damage or ground failure will not occur if a large earthquake occurs. The primary goal of seismic design is to protect life, not to avoid all damage, since such design may be economically prohibitive.

9.3 Soil and Excavation Characteristics

9.3.1 Based on the soil conditions encountered in our soil borings, the upper soils can be excavated with moderate effort using conventional heavy-duty earthmoving equipment. Large heavy-duty earthwork equipment will likely be required for deeper excavations.

9.3.2 It is the responsibility of the contractor to ensure that all excavations and trenches are properly shored and maintained in accordance with applicable Occupational Safety and Health Administration (OSHA) rules and regulations to maintain safety and maintain the stability of adjacent existing improvements.

9.3.3 The near surface soils identified as part of our investigation are, generally, moist to wet due to the absorption characteristics of the soil. Earthwork operations may encounter moist unstable soils which may require removal to a stable bottom. Exposed native soils exposed as part of site grading operations shall not be allowed to dry out and should be kept continuously moist prior to placement of subsequent fill.

9.4 Materials for Fill

9.4.1 Excavated soils generated from cut operations at the site are suitable for use as general Engineered Fill in structural areas provided do not exhibit an expansion index above 30 (EI > 30), do not contain deleterious matter, debris, organic material, or rock material larger than 3 inches in maximum dimension.

9.4.2 Any soil with an expansion index above 30 and below 50 (30<EI<50) should not be placed within the upper 12 inches within building pad or exterior flatwork areas.

9.4.3 The preferred materials specified for Engineered Fill are suitable for most applications with the exception of exposure to erosion. Project site winterization and protection of exposed soils during the construction phase should be the sole responsibility of the Contractor, since they have complete control of the project site.

9.4.4 Import soil shall be well-graded, slightly cohesive silty fine sand or sandy silt, with relatively impervious characteristics when compacted. A clean sand or very sandy soil is not acceptable

for this purpose. This material should be approved by the Engineer prior to use and should typically possess the soil characteristics summarized below in Table 9.4.3.

TABLE 9.4.4
IMPORT FILL REQUIREMENTS

Minimum Percent Passing No. 200 Sieve	20
Maximum Percent Passing No. 200 Sieve	50
Minimum Percent Passing No. 4 Sieve	80
Maximum Particle Size	3"
Maximum Plasticity Index	12
Maximum CBC Expansion Index	20

9.4.5 Environmental characteristics and corrosion potential of import soil materials should also be considered.

9.4.6 Proposed import materials should be sampled, tested, and approved by SALEM prior to its transportation to the site.

9.5 Grading

9.5.1 A SALEM representative should be present during all site clearing and grading operations to test and observe earthwork construction. This testing and observation is an integral part of our service as acceptance of earthwork construction is dependent upon compaction of the material and the stability of the material. The Geotechnical Engineer may reject any material that does not meet compaction and stability requirements. Further recommendations of this report are predicated upon the assumption that earthwork construction will conform to recommendations set forth in this section as well as other portions of this report.

9.5.2 A preconstruction conference should be held at the site prior to the beginning of grading operations with the owner, contractor, civil engineer and geotechnical engineer in attendance.

9.5.3 Site preparation should begin with removal of existing surface/subsurface structures, underground utilities (as required), any existing uncertified fill, and debris. Excavations or depressions resulting from site clearing operations, or other existing excavations or depressions, should be restored with Engineered Fill in accordance with the recommendations of this report.

9.5.4 Surface vegetation consisting of grasses and other similar vegetation should be removed by stripping to a sufficient depth to remove organic-rich topsoil. The upper 4 to 8 inches of the soils containing vegetation, roots, and other objectionable organic matter encountered at the time of grading should be stripped and removed from the surface. Deeper stripping may be required in localized areas. In addition, existing concrete and asphalt materials shall be removed from areas of proposed improvements and stockpiled separately from excavated soil material. The stripped vegetation, asphalt, and concrete materials will not be suitable for use as Engineered Fill or within

5 feet of building pads or within pavement areas. However, stripped topsoil may be stockpiled and reused in landscape or non-structural areas or exported from the site.

9.5.5 Tree root systems in proposed improvement areas should be removed to a minimum depth of 3 feet and to such an extent which would permit removal of all roots greater than ½ inch in diameter. Tree roots removed in parking areas may be limited to the upper 1½ feet of the ground surface. Backfill of tree root excavations is not permitted until all exposed surfaces have been inspected and the Soils Engineer is present for the proper control of backfill placement and compaction. Burning in areas which are to receive fill materials shall not be permitted.

9.5.6 Any undocumented and uncertified fill materials encountered during grading should be removed and replaced with engineered fill. The actual depth of the overexcavation and recompaction should be determined by our field representative during construction.

9.5.7 Structural building pad areas should be considered as areas extending a minimum of 5 feet horizontally beyond the outside dimensions of buildings, including footings and non-cantilevered overhangs carrying structural loads.

9.5.8 Any soil with an expansion index above 30 and below 50 (30<EI<50) should not be placed within the upper 12 inches within building pad or exterior flatwork areas.

9.5.9 To minimize post-construction soil movement and provide uniform support for the proposed buildings, it is recommended that the overexcavation and recompaction within the proposed building areas be performed to a minimum depth of **three (3)** feet below existing grade or **two (2)** feet below proposed footing bottom or to a depth below all undocumented fill materials, whichever is deeper. Any undocumented fill materials encountered during grading should be removed and replaced with Engineered Fill. The overexcavation and recompaction should also extend laterally to a minimum of 5 feet beyond the outer edges of the proposed footings.

9.5.10 A 15- to 20- foot high retaining wall is proposed to separate the site area from lower grades adjacent to existing drainage culvert. To minimize post-construction soil movement and provide uniform support for the proposed footing of the retaining wall, it is recommended that overexcavation and recompaction be performed to a minimum depth of **four (4)** feet below existing grade, to a depth below all undocumented fill materials, or to a depth below all loose/compressible sedimentary soils, whichever is deeper. Any soils contain more than 3 percent of organic materials cannot be reused as engineered fill. The extent of the overexcavation and recompaction should be verified during site grading. The overexcavation and recompaction should also extend laterally to a minimum of 5 feet beyond the outer edges of the proposed footings.

9.5.11 Within pavement areas, overexcavation and recompaction should be performed to a minimum depth of **one (1) foot** below existing grade or proposed grade, whichever is deeper. The overexcavation and recompaction should also extend laterally to a minimum of 2 feet beyond the pavement edges. Any fill materials encountered during grading should be removed and replaced with engineered fill.

9.5.12 Thick fill materials are anticipated on the northern boundary of the site, where the ravine used to exist. One of the proposed canopies, underground storage tanks, and pavement are located in that area. Undocumented fill materials are not suitable to support any future structures and should be excavated and replaced with Engineered Fill. Prior to fill placement, SALEM should inspect the bottom of the excavation to verify the bottom condition. The owner may elect not to recompact the existing fill within paved areas. However, the owner should be aware that these areas may settle, which may require annual maintenance.

9.5.13 Prior to placement of fill soils, the upper 8 to 10 inches of native subgrade soils should be scarified, moisture-conditioned to slightly higher than the optimum moisture content and recompacted to a minimum of 90% of the maximum dry density based on ASTM D1557-07 Test Method.

9.5.14 All Engineered Fill (including scarified ground surfaces and backfill) should be placed in thin lifts to allow for adequate bonding and compaction (typically 6 to 8 inches in loose thickness).

9.5.15 Engineered Fill soils should be moisture conditioned to slightly above optimum moisture content, and compacted to at least 90% relative compaction.

9.5.16 Non-Expansive Engineered Fill should be moisture conditioned to near optimum moisture content, and compacted to at least 95% relative compaction.

9.5.17 An integral part of satisfactory fill placement is the stability of the placed lift of soil. If placed materials exhibit excessive instability as determined by a SALEM field representative, the lift will be considered unacceptable and shall be remedied prior to placement of additional fill material. Additional lifts should not be placed if the previous lift did not meet the required dry density or if soil conditions are not stable.

9.5.18 Final pavement subgrade should be finished to a smooth, unyielding surface. We further recommend proof-rolling the subgrade with a loaded water truck (or similar equipment with high contact pressure) to verify the stability of the subgrade prior to placing aggregate base.

9.5.19 The most effective site preparation alternatives will depend on site conditions prior to grading. We should evaluate site conditions and provide supplemental recommendations immediately prior to grading, if necessary.

9.5.20 We do not anticipate groundwater or seepage to adversely affect construction if conducted during the drier months of the year (typically summer and fall). However, groundwater and soil moisture conditions could be significantly different during the wet season (typically winter and spring) as surface soil becomes wet; perched groundwater conditions may develop. Grading during this time period will likely encounter wet materials resulting in possible excavation and fill placement difficulties.

Project site winterization consisting of placement of aggregate base and protecting exposed soils during construction should be performed. If the construction schedule requires grading operations during the wet season, we can provide additional recommendations as conditions warrant.

9.5.21 Wet soils may become non conducive to site grading as the upper soils yield under the weight of the construction equipment. Therefore, mitigation measures should be performed for stabilization. Typical remedial measures include: discing and aerating the soil during dry weather; mixing the soil with dryer materials; removing and replacing the soil with an approved fill material or placement of slurry, crushed rocks or aggregate base material; or mixing the soil with an approved lime or cement product. The most common remedial measure of stabilizing the bottom of the excavation due to wet soil condition is to reduce the moisture of the soil to near the optimum moisture content by having the subgrade soils scarified and aerated or mixed with drier soils prior to compacting. However, the drying process may require an extended period of time and delay the construction operation.

To expedite the stabilizing process, slurry or crushed rock may be utilized for stabilization provided this method is approved by the owner for the cost purpose. If the use of slurry, crushed rock is considered, it is recommended that the upper soft and wet soils be replaced by 6 to 24 inches of 2-sack slurry or ¾-inch to 1-inch crushed rocks. The thickness of the slurry or rock layer depends on the severity of the soil instability. The recommended 6 to 24 inches of crushed rock material will provide a stable platform. It is further recommended that lighter compaction equipment be utilized for compacting the crushed rock. A layer of geofabric is recommended to be placed on top of the compacted crushed rock to minimize migration of soil particles into the voids of the crushed rock, resulting in soil movement. Although it is not required, the use of geogrid (e.g. Tensar TX7) below the slurry or crushed rock will enhance stability and reduce the required thickness of crushed rock necessary for stabilization. Our firm should be consulted prior to implementing remedial measures to provide appropriate recommendations.

9.6 Shallow Foundations

9.6.1 The site is suitable for use of conventional shallow foundations consisting of continuous footings and isolated pad footings bearing in properly compacted Engineered Fill.

9.6.2 The bearing wall footings considered for the structure should be continuous with a minimum width of 15 inches and extend to a minimum depth of 18 inches below the lowest adjacent grade. Isolated column footings should have a minimum width of 24 inches and extend a minimum depth of 18 inches below the lowest adjacent grade.

9.6.3 The bottom of footing excavations should be maintained free of loose and disturbed soil. Footing concrete should be placed into a neat excavation.

9.6.4 Footings proportioned as recommended above may be designed for the maximum allowable soil bearing pressures shown in the table below.

Loading Condition	Allowable Bearing
Dead Load Only	2,000 psf
Dead-Plus-Live Load	2,500 psf
Total Load, Including Wind or Seismic Loads	3,325 psf

9.6.5 For design purposes, total settlement due to static loading on the order of 1 inch may be assumed for shallow footings. Differential settlement due to static loading, along a 20-foot exterior wall footing or between adjoining column footings, should be ½ inch, producing an angular distortion of 0.002. Most of the settlement is expected to occur during construction as the loads are applied. However, additional post-construction settlement may occur if the foundation soils are flooded or saturated. The footing excavations should not be allowed to dry out any time prior to pouring concrete.

9.6.6 Resistance to lateral footing displacement can be computed using an allowable coefficient of friction factor of 0.35 acting between the base of foundations and the supporting native subgrade.

9.6.7 Lateral resistance for footings can alternatively be developed using an equivalent fluid passive pressure of 300 pounds per cubic foot acting against the appropriate vertical native footing faces. The frictional and passive resistance of the soil may be combined without reduction in determining the total lateral resistance. An increase of one-third is permitted when using the alternate load combinations that includes wind or earthquake loads.

9.6.8 Underground utilities running parallel to footings should not be constructed in the zone of influence of footings. The zone of influence may be taken to be the area beneath the footing and within a 1:1 plane extending out and down from the bottom edge of the footing.

9.6.9 The foundation subgrade should be sprinkled as necessary to maintain a moist condition without significant shrinkage cracks as would be expected in any concrete placement. Prior to placing rebar reinforcement, foundation excavations should be evaluated by a representative of SALEM for appropriate support characteristics and moisture content. Moisture conditioning may be required for the materials exposed at footing bottom, particularly if foundation excavations are left open for an extended period.

9.7 Caisson Foundations for Canopy

9.7.1 It is recommended that the caisson foundation should have a minimum diameter of 24 inches and a minimum depth of 8 feet below the lowest adjacent grade.

9.7.2 The caissons may be designed using an allowable sidewall friction of 250 psf. This value is for dead-plus-live loads. An allowable end bearing capacity of 3,000 psf may be used provided that the bottom of the caisson is cleaned with the use of a clean-out bucket or equivalent and inspected by our representative prior to placement of reinforcement and concrete. An increase of one-third is permitted when using the alternate load combination that includes wind or earthquake loads.

9.7.3 Uplift loads can be resisted by caissons using an allowable sidewall friction of 200 psf of the surface area and the weight of the caisson.

9.7.4 The total static settlement of the caisson footing is not expected to exceed 1 inch. Differential static settlement should be less than ½ inch. Most of the settlement is expected to occur during construction as the loads are applied.

9.7.5 The drilled caissons may be designed for a lateral capacity of 300 pounds per square foot per foot of depth below the lowest adjacent grade to a maximum of 4,500 psf.

9.7.6 The top one-foot of adjacent subgrade should be deleted from the passive pressure computation.

9.7.7 Sandy soils were encountered at the site. Casing of the drilled caisson will be required if caving is encountered or the drilled hole has to be left open for an extended period of time.

9.8 Concrete Slabs-on-Grade

9.8.1 Slab thickness and reinforcement should be determined by the structural engineer based on the anticipated loading. We recommend that non-structural slabs-on-grade be at least 4 inches thick and underlain by six (6) inches of compacted granular aggregate subbase material compacted to at least 95% relative compaction.

9.8.2 Granular aggregate subbase material shall conform to ASTM D-2940, Latest Edition (Table 1, bases) with at least 95 percent passing a 1½-inch sieve and not more than 8% passing a No. 200 sieve or clean Crushed Aggregate Base (CAB) to prevent capillary moisture rise. Crushed Miscellaneous Base (CMB) containing recycled materials should not be used as granular aggregate subbase within the building areas.

9.8.3 We recommend reinforcing slabs, at a minimum, with No. 4 reinforcing bars placed 18 inches on center, each way.

9.8.4 Slabs subject to structural loading may be designed utilizing a modulus of subgrade reaction K of 140 pounds per square inch per inch. The K value was approximated based on inter-relationship of soil classification and bearing values (Portland Cement Association, Rocky Mountain Northwest).

9.8.5 The spacing of crack control joints should be designed by the project structural engineer. In order to regulate cracking of the slabs, we recommend that construction joints or control joints be provided at a maximum spacing of 15 feet in each direction for 5-inch thick slabs and 12 feet for 4-inch thick slabs.

9.8.6 Crack control joints should extend a minimum depth of one-fourth the slab thickness and should be constructed using saw-cuts or other methods as soon as practical after concrete placement. The exterior floors should be poured separately in order to act independently of the walls and foundation system.

9.8.7 It is recommended that the utility trenches within the structure be compacted, as specified in our report, to minimize the transmission of moisture through the utility trench backfill. Special attention to the immediate drainage and irrigation around the structures is recommended.

9.8.8 Moisture within the structure may be derived from water vapors, which were transformed from the moisture within the soils. This moisture vapor penetration can affect floor coverings and produce mold and mildew in the structure. To minimize moisture vapor intrusion, it is recommended that a vapor retarder be installed in accordance with manufacturer's

recommendations and/or ASTM guidelines, whichever is more stringent. In addition, ventilation of the structure is recommended to reduce the accumulation of interior moisture.

9.8.9 In areas where it is desired to reduce floor dampness where moisture-sensitive coverings are anticipated, construction should have a suitable waterproof vapor retarder (a minimum of 15 mils thick polyethylene vapor retarder sheeting, Raven Industries "VaporBlock 15, Stego Industries 15 mil "StegoWrap" or W.R. Meadows Sealtight 15 mil "Perminator") incorporated into the floor slab design. The water vapor retarder should be decay resistant material complying with ASTM E96 not exceeding 0.04 perms, ASTM E154 and ASTM E1745 Class A. The vapor barrier should be placed between the concrete slab and the compacted granular aggregate subbase material. The water vapor retarder (vapor barrier) should be installed in accordance with ASTM Specification E 1643-94.

9.8.10 The concrete may be placed directly on vapor retarder. The vapor retarder should be inspected prior to concrete placement. Cut or punctured retarder should be repaired using vapor retarder material lapped 6 inches beyond damaged areas and taped.

9.8.11 The recommendations of this report are intended to reduce the potential for cracking of slabs due to soil movement. However, even with the incorporation of the recommendations presented herein, foundations, stucco walls, and slabs-on-grade may exhibit some cracking due to soil movement. This is common for project areas that contain expansive soils since designing to eliminate potential soil movement is cost prohibitive. The occurrence of concrete shrinkage cracks is independent of the supporting soil characteristics. Their occurrence may be reduced and/or controlled by limiting the slump of the concrete, proper concrete placement and curing, and by the placement of crack control joints at periodic intervals, in particular, where re-entrant slab corners occur.

9.8.12 Proper finishing and curing should be performed in accordance with the latest guidelines provided by the American Concrete Institute, Portland Cement Association, and ASTM.

9.9 Lateral Earth Pressures and Frictional Resistance

9.9.1 Active, at-rest and passive unit lateral earth pressures against footings and walls are summarized in the table below:

Lateral Pressure Conditions	Allowable Equivalent Fluid Pressure, pcf
Active Pressure, Drained	40
At-Rest Pressure, Drained	60
Passive Pressure	300
Related Parameters	
Allowable Coefficient of Friction	0.35
In-Place Soil Density (lbs/ft^3)	120

9.9.2 Active pressure applies to walls, which are free to rotate. At-rest pressure applies to walls, which are restrained against rotation. The preceding lateral earth pressures assume sufficient drainage behind retaining walls to prevent the build-up of hydrostatic pressure.

9.9.3 The top one-foot of adjacent subgrade should be deleted from the passive pressure computation.

9.9.4 A safety factor consistent with the design conditions should be included in their usage.

9.9.5 For stability against lateral sliding, which is resisted solely by the passive pressure, we recommend a minimum safety factor of 1.5.

9.9.6 For stability against lateral sliding, which is resisted by the combined passive and frictional resistance, a minimum safety factor of 2.0 is recommended.

9.9.7 For lateral stability against seismic loading conditions, we recommend a minimum safety factor of 1.1.

9.9.8 For dynamic seismic lateral loading the following equation shall be used:

Dynamic Seismic Lateral Loading Equation
Dynamic Seismic Lateral Load = $\frac{3}{8}\gamma K_h H^2$
Where: γ = In-Place Soil Density
K_h = Horizontal Acceleration = $\frac{2}{3}PGA_M$
H = Wall Height

9.10 Retaining Walls

9.10.1 Retaining and/or below grade walls should be drained with either perforated pipe encased in free-draining gravel or a prefabricated drainage system. The gravel zone should have a minimum width of 12 inches wide and should extend upward to within 12 inches of the top of the wall. The upper 12 inches of backfill should consist of native soils, concrete, asphaltic-concrete or other suitable backfill to minimize surface drainage into the wall drain system. The gravel should conform to Class II permeable materials graded in accordance with the current CalTrans Standard Specifications.

9.10.2 Prefabricated drainage systems, such as Miradrain®, Enkadrain®, or an equivalent substitute, are acceptable alternatives in lieu of gravel provided they are installed in accordance with the manufacturer's recommendations. If a prefabricated drainage system is proposed, our firm should review the system for final acceptance prior to installation.

9.10.3 Drainage pipes should be placed with perforations down and should discharge in a non-erosive manner away from foundations and other improvements. The top of the perforated pipe should be placed at or below the bottom of the adjacent floor slab or pavements. The pipe should be placed in the center line of the drainage blanket and should have a minimum diameter of 4 inches. Slots should be no wider than 1/8-inch in diameter, while perforations should be no more than ¼-inch in diameter.

9.10.4 If retaining walls are less than 5 feet in height, the perforated pipe may be omitted in lieu of weep holes on 4 feet maximum spacing. The weep holes should consist of 2-inch minimum diameter holes (concrete walls) or unmortared head joints (masonry walls) and placed no higher than 18 inches above the lowest adjacent grade. Two 8-inch square overlapping patches of geotextile fabric (conforming to the CalTrans Standard Specifications for "edge drains") should be affixed to the rear wall opening of each weep hole to retard soil piping.

9.10.5 During grading and backfilling operations adjacent to any walls, heavy equipment should not be allowed to operate within a lateral distance of 5 feet from the wall, or within a lateral distance equal to the wall height, whichever is greater, to avoid developing excessive lateral pressures. Within this zone, only hand operated equipment ("whackers," vibratory plates, or pneumatic compactors) should be used to compact the backfill soils.

9.11 Temporary Excavations

9.11.1 We anticipate that the majority of the near surface site soils will be classified as Cal-OSHA "Type B" soil when encountered in excavations during site development and construction. If active seepage or layers of very soft non-cohesive soil are encountered, the Cal-OSHA classification should be downgraded to "Type C". Excavation sloping, benching, the use of trench shields, and the placement of trench spoils should conform to the latest applicable Cal-OSHA standards. The contractor should have a Cal-OSHA-approved "competent person" onsite during excavation to evaluate trench conditions and make appropriate recommendations where necessary.

9.11.2 It is the contractor's responsibility to provide sufficient and safe excavation support as well as protecting nearby utilities, structures, and other improvements which may be damaged by earth movements. All onsite excavations must be conducted in such a manner that potential surcharges from existing structures, construction equipment, and vehicle loads are resisted. The surcharge area may be defined by a 1:1 projection down and away from the bottom of an existing foundation or vehicle load.

9.11.3 Temporary excavations and slope faces should be protected from rainfall and erosion. Surface runoff should be directed away from excavations and slopes.

9.11.4 Open, unbraced excavations in undisturbed soils should be made according to the slopes presented in the following table:

RECOMMENDED EXCAVATION SLOPES

Depth of Excavation (ft)	Slope (Horizontal : Vertical)
0-5	¾:1
5-10	1½:1

9.11.5 If, due to space limitation, excavations near property lines or existing structures are performed in a vertical position, slot cuts, braced shorings or shields may be used for supporting vertical excavations. Therefore, in order to comply with the local and state safety regulations, a properly designed and installed shoring system would be required to accomplish planned excavations and

installation. A Specialty Shoring Contractor should be responsible for the design and installation of such a shoring system during construction.

9.11.6 Braced shorings should be designed for a maximum pressure distribution of 30H, (where H is the depth of the excavation in feet). The foregoing does not include excess hydrostatic pressure or surcharge loading. Fifty percent of any surcharge load, such as construction equipment weight, should be added to the lateral load given herein. Equipment traffic should concurrently be limited to an area at least 3 feet from the shoring face or edge of the slope.

9.11.7 The excavation and shoring recommendations provided herein are based on soil characteristics derived from the borings within the area. Variations in soil conditions will likely be encountered during the excavations. SALEM Engineering Group, Inc. should be afforded the opportunity to provide field review to evaluate the actual conditions and account for field condition variations not otherwise anticipated in the preparation of this recommendation. Slope height, slope inclination, or excavation depth should in no case exceed those specified in local, state, or federal safety regulation, (e.g. OSHA) standards for excavations, 29 CFR part 1926, or Assessor's regulations.

9.12 Underground Utilities

9.12.1 Underground utility trenches should be backfilled with properly compacted material. The material excavated from the trenches should be adequate for use as backfill provided it does not contain deleterious matter, vegetation or rock larger than 3 inches in maximum dimension. Trench backfill should be placed in loose lifts not exceeding 8 inches and compacted to at least 90% relative compaction at or above optimum moisture content.

9.12.2 Bedding and pipe zone backfill typically extends from the bottom of the trench excavations to approximately 6 to 12 inches above the crown of the pipe. Pipe bedding and backfill material should conform to the requirements of the governing utility agency.

9.12.3 It is suggested that underground utilities crossing beneath new or existing structures be plugged at entry and exit locations to the building or structure to prevent water migration. Trench plugs can consist of on-site clay soils, if available, or sand cement slurry. The trench plugs should extend 2 feet beyond each side of individual perimeter foundations.

9.12.4 The contractor is responsible for removing all water-sensitive soils from the trench regardless of the backfill location and compaction requirements. The contractor should use appropriate equipment and methods to avoid damage to the utilities and/or structures during fill placement and compaction.

9.13 Surface Drainage

9.13.1 Proper surface drainage is critical to the future performance of the project. Uncontrolled infiltration of irrigation excess and storm runoff into the soils can adversely affect the performance of the planned improvements. Saturation of a soil can cause it to lose internal shear strength and increase its compressibility, resulting in a change to important engineering properties. Proper drainage should be maintained at all times.

9.13.2 The ground immediately adjacent to the foundation shall be sloped away from the building at a slope of not less than 5 percent for a minimum distance of 10 feet.

9.13.3 Impervious surfaces within 10 feet of the building foundation shall be sloped a minimum of 2 percent away from the building and drainage gradients maintained to carry all surface water to collection facilities and off site. These grades should be maintained for the life of the project. Ponding of water should not be allowed adjacent to the structure. Over-irrigation within landscaped areas adjacent to the structure should not be performed.

9.13.4 Roof drains should be installed with appropriate downspout extensions out-falling on splash blocks so as to direct water a minimum of 5 feet away from the structures or be connected to the storm drain system for the development.

9.14 Pavement Design

9.14.1 Based on site soil conditions, an R-value of 25 was used for the preliminary flexible asphaltic concrete pavement design. The R-value may be verified during grading of the pavement areas.

9.14.2 The asphaltic concrete (flexible pavement) is based on a 20 year pavement life for traffic indexes of 5.0 and 6.5. If higher traffic loading is anticipated, SALEM should be contacted to provide revised pavement thickness recommendations

TABLE 9.14.2
ASPHALT CONCRETE PAVEMENT

Traffic Index	Asphaltic Concrete	Clean Class II Aggregate Base*	Compacted Subgrade**
5.0 (Parking & Vehicle Drive Areas)	3.0"	6.0"	12.0"
6.0 (Heavy Truck Areas)	4.0"	9.0"	12.0"

95% compaction based on ASTM D1557-07 Test Method
****90% compaction based on ASTM D1557-07 Test Method***

9.14.3 The following recommendations are for light-duty and heavy-duty Portland Cement Concrete pavement sections.

TABLE 9.14.3
PORTLAND CEMENT CONCRETE PAVEMENT

Traffic Index	Portland Cement Concrete*	Clean Class II Aggregate Base**	Compacted Subgrade***
5.0 (Light Duty)	5.0"	4.0"	12.0"
6.5 (Heavy Duty)	7.0"	6.0"	12.0"

*** Min. Compressive Strength of 4,000 psi; Min. Reinforcement of #4 bars at 15" O.C. E.W.***
****95% compaction based on ASTM D1557-07 Test Method***
*****90% compaction based on ASTM D1557-07 Test Method***

10. PLAN REVIEW, CONSTRUCTION OBSERVATION AND TESTING

10.1 Plan and Specification Review

10.1.1 SALEM should review the project plans and specifications prior to final design submittal to assess whether our recommendations have been properly implemented and evaluate if additional analysis and/or recommendations are required.

10.2 Construction Observation and Testing Services

10.2.1 The recommendations provided in this report are based on the assumption that we will continue as Geotechnical Engineer of Record throughout the construction phase. It is important to maintain continuity of geotechnical interpretation and confirm that field conditions encountered are similar to those anticipated during design. If we are not retained for these services, we cannot assume any responsibility for others interpretation of our recommendations, and therefore the future performance of the project.

10.2.2 SALEM should be present at the site during site preparation to observe site clearing, preparation of exposed surfaces after clearing, and placement, treatment and compaction of fill material.

10.2.3 SALEM's observations should be supplemented with periodic compaction tests to establish substantial conformance with these recommendations. Moisture content of footings and slab subgrade should be tested immediately prior to concrete placement. SALEM should observe foundation excavations prior to placement of reinforcing steel or concrete to assess whether the actual bearing conditions are compatible with the conditions anticipated during the preparation of this report.

11. LIMITATIONS AND CHANGED CONDITIONS

The analyses and recommendations submitted in this report are based upon the data obtained from the test borings drilled at the approximate locations shown on the Site Plan, Figure 2. The report does not reflect variations which may occur between borings. The nature and extent of such variations may not become evident until construction is initiated.

If variations then appear, a re-evaluation of the recommendations of this report will be necessary after performing on-site observations during the excavation period and noting the characteristics of such variations. The findings and recommendations presented in this report are valid as of the present and for the proposed construction. If site conditions change due to natural processes or human intervention on the property or adjacent to the site, or changes occur in the nature or design of the project, or if there is a substantial time lapse between the submission of this report and the start of the work at the site, the conclusions and recommendations contained in our report will not be considered valid unless the changes are reviewed by SALEM and the conclusions of our report are modified or verified in writing.

The validity of the recommendations contained in this report is also dependent upon an adequate testing and observations program during the construction phase. Our firm assumes no responsibility for construction compliance with the design concepts or recommendations unless we have been retained to perform the on-

site testing and review during construction. SALEM has prepared this report for the exclusive use of the owner and project design consultants.

SALEM does not practice in the field of corrosion engineering. It is recommended that a qualified corrosion engineer be consulted regarding protection of buried steel or ductile iron piping and conduit or, at a minimum, that manufacturer's recommendations for corrosion protection be closely followed. Further, a corrosion engineer may be needed to incorporate the necessary precautions to avoid premature corrosion of concrete slabs and foundations in direct contact with native soil. The importation of soil and aggregate to the site should be screened to determine the potential for corrosion to concrete and buried metal piping.

The report has been prepared in accordance with generally accepted geotechnical engineering practices in the area. No other warranties, either express or implied, are made as to the professional advice provided under the terms of our agreement and included in this report. If you have any questions, or if we may be of further assistance, please do not hesitate to contact our office at (909) 980-6455.

Respectfully Submitted,

SALEM ENGINEERING GROUP, INC.

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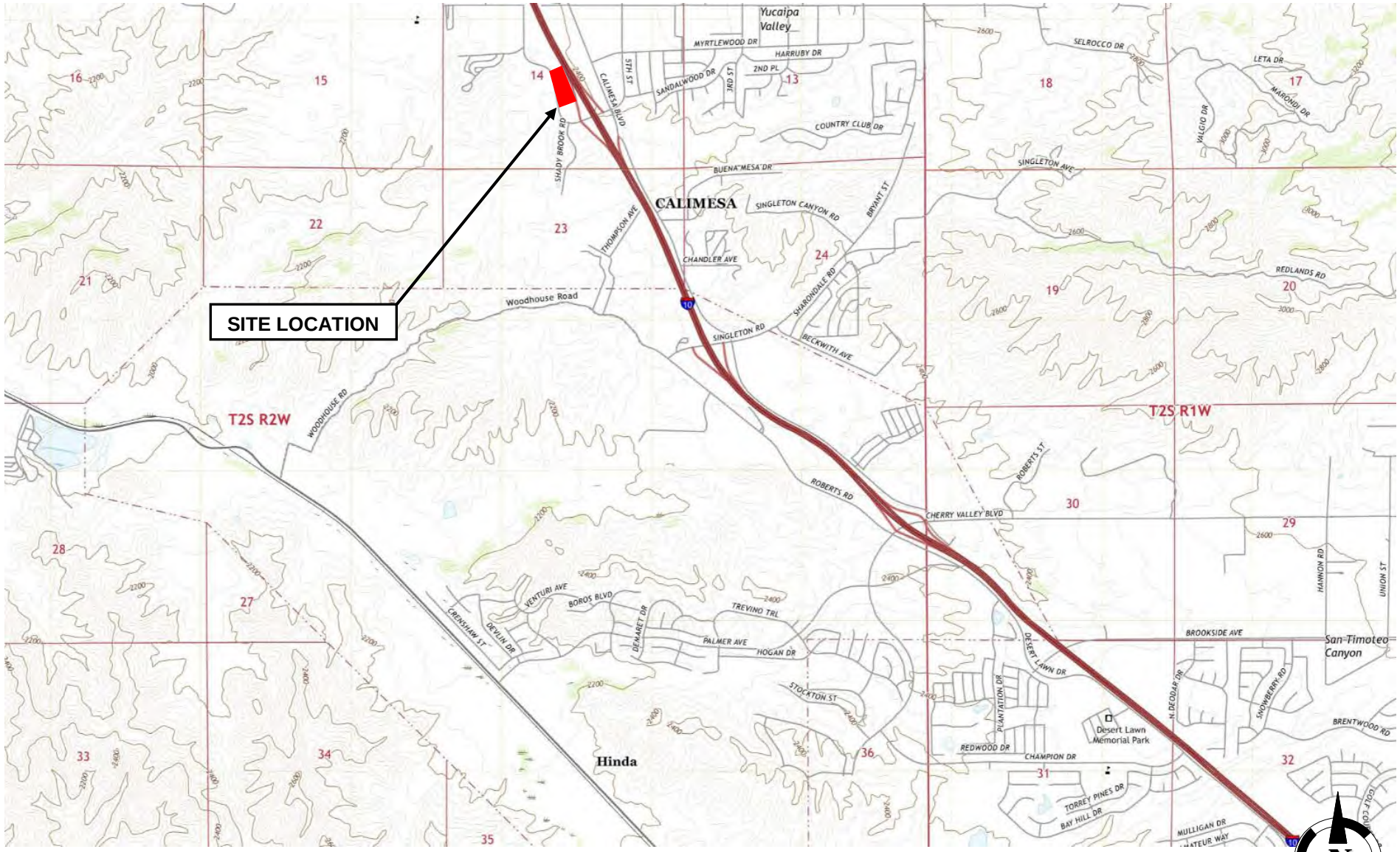
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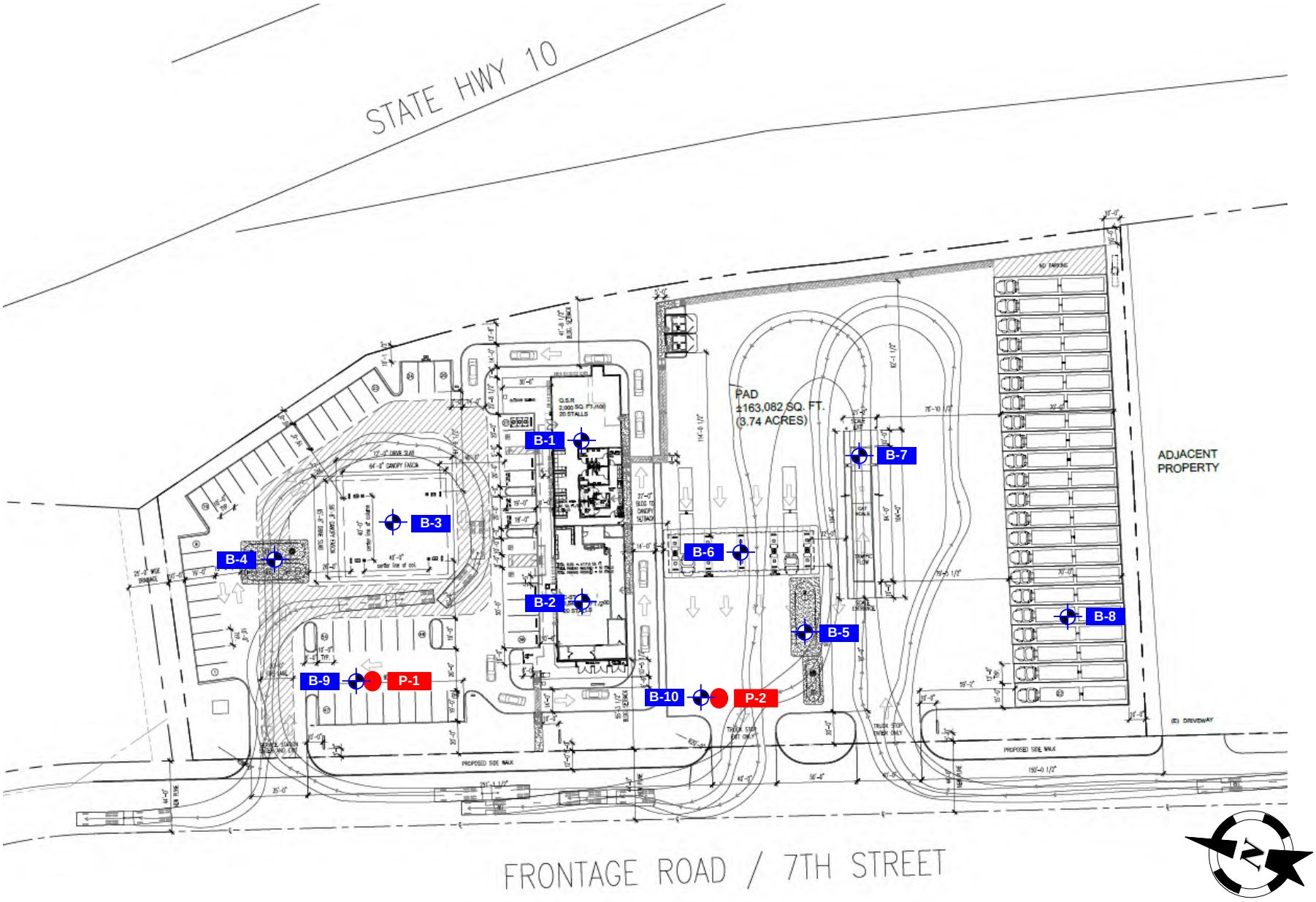
Source Image: U.S. Geological Survey, El Casco, California, https://ngmdb.usgs.gov/topoview (2018)

VICINITY MAP

GEOTECHNICAL ENGINEERING INVESTIGATION
Proposed Fueling Station
Sandalwood Drive & 7th Street
Calimesa, California

SCALE:	DATE:
NOT TO SCALE	03/2021
DRAWN BY:	APPROVED BY:
JC	CJ
PROJECT NO.	FIGURE NO.
3-221-0096	1

SALEM engineering group, inc.



SITE PLAN

GEOTECHNICAL ENGINEERING INVESTIGATION
Proposed Fueling Station
Sandalwood Drive & 7th Street
Calimesa, California

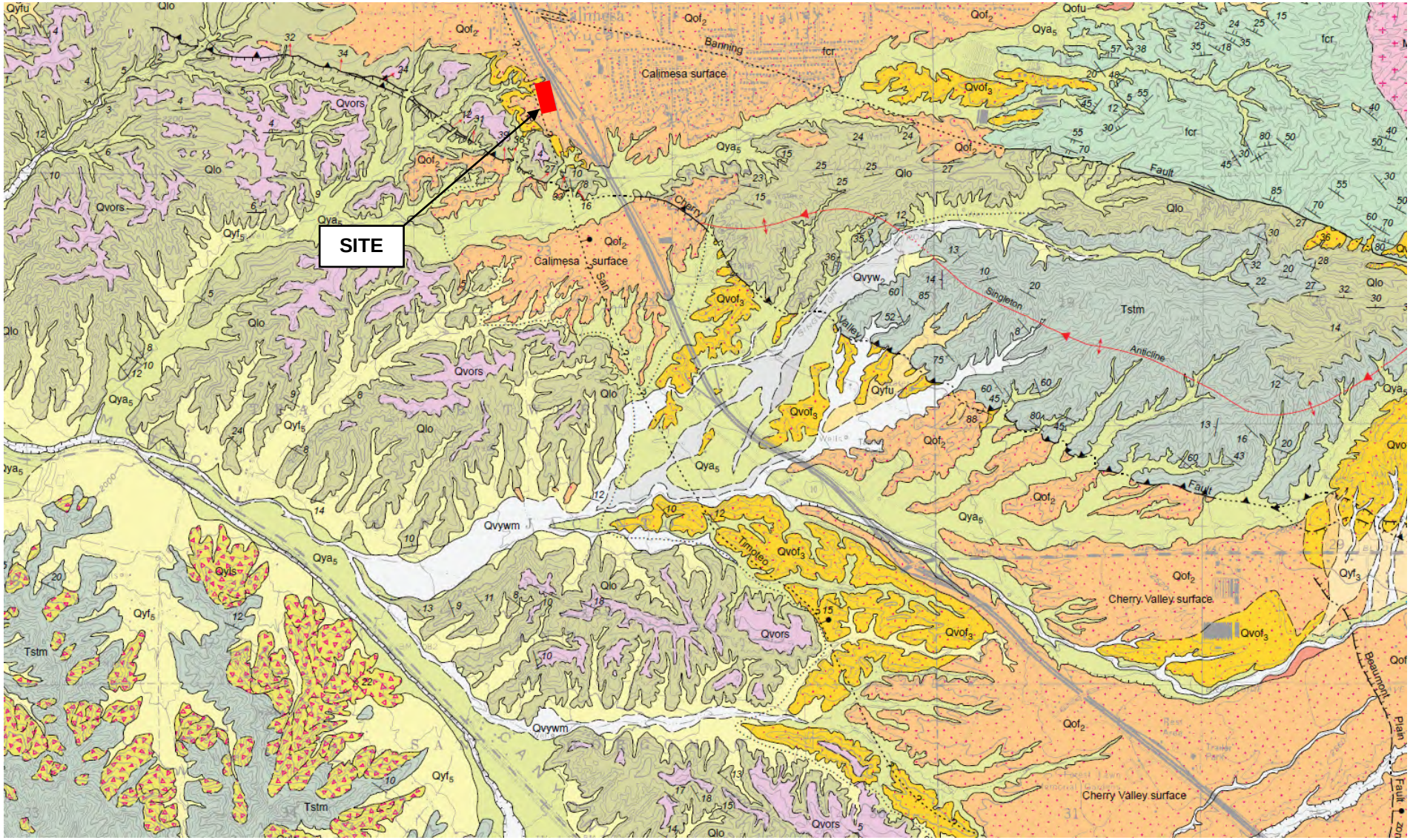
SCALE: NOT TO SCALE	DATE: 03/2021
DRAWN BY: JC	APPROVED BY: CJ
PROJECT NO. 3-221-0096	FIGURE NO. 2

LEGEND:

B-1 Soil Boring Locations
P-1 Percolation Locations

All Locations Approximate

SALEM engineering group, inc.



Morton, Douglas M., and Matti, Jonathan C. (2015), Geologic Map of the El Casco 7.5' Quadrangle, Riverside County, California, Sheet 1 of 3: U.S. Geological Survey, scale 1:24,000.

Regional Geologic Map

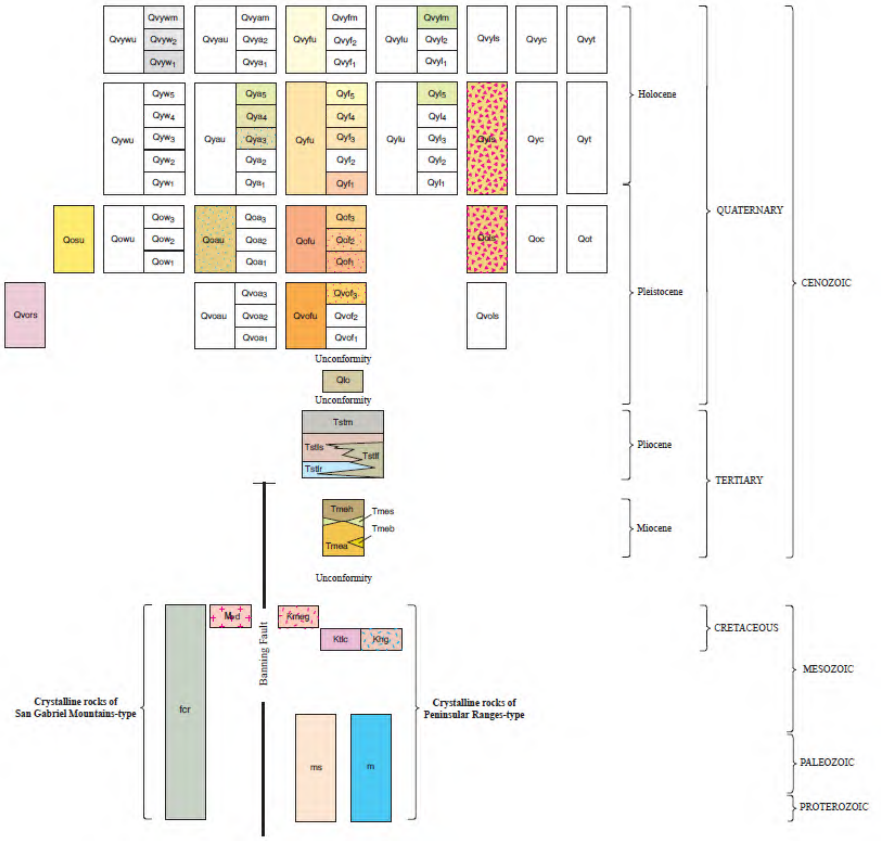
GEOTECHNICAL ENGINEERING INVESTIGATION
Proposed Fueling Station
Sandalwood Drive & 7th Street
Calimesa, California

SCALE:	DATE:
NOT TO SCALE	03/2021
DRAWN BY:	APPROVED BY:
JC	CJ
PROJECT NO.	FIGURE NO.
3-221-0096	3A

SALEM engineering group, inc.

N

Geologic Unit Explanation



Symbol Explination

Contact—Separates geologic-map units. Solid where meets map-accuracy standard; dashed where may not meet map-accuracy standard; dotted where concealed

Contact—Separates terraced alluvial units where younger unit is incised into older unit; hachures at base of slope, point toward topographically lower surface. Solid where meets map-accuracy standard; dashed where may not meet map-accuracy standard

Landslide crown scarp—Demarcates pull-away zone at head of landslide mass; may not meet map-accuracy standard. May form geologic contact between landslide mass and bedrock, or may separate discrete landslide masses. Hachures point downslope. Solid where meets map-accuracy standard; dashed where may not meet map-accuracy standard

Fault—Solid where meets map-accuracy standard; dashed where may not meet map-accuracy standard. Dotted where concealed by mapped covering unit; queried where existence uncertain. Hachures indicate scarp, with hachures on down-dropped block. Paired arrows indicate relative movement; single arrow indicates direction and amount of fault-plane dip. Bar and ball on down-thrown block

Thrust fault—Solid where meets map-accuracy standard; dashed where may not meet map-accuracy standard. Dotted where concealed by mapped covering unit; queried where existence uncertain. Sawteeth on upper plate; hachures at base of slope on downthrown block of fault scarp

Fault—Interpreted from seismic imaging; no locational accuracy implied (from Park and others,1995)

Fold axial plane—Solid where meets map-accuracy standard; dashed where may not meet map-accuracy standard. Dotted where concealed by mapped covering unit

Anticline, showing plunge direction

Syncline, showing plunge direction

Ground fissure

Geomorphic surface (Mt. Eden surface)

Fault-name abbreviations

SJF — **San Jacinto Fault**

Strike and dip of sedimentary layering

Inclined

Vertical

Overturned

Strike and dip of foliation of mineral grains, inclusions, or schlieren in igneous rocks

Inclined

Mineral foliation and (or) compositional layering in metamorphic rocks

Inclined

Vertical

Foliation in cataclastic and (or) mylonitic rocks

Inclined

Vertical

Azimuth and plunge of lineations

lineation, unspecified

Morton, Douglas M., and Matti, Jonathan C. (2015), Geologic Map of the El Casco 7.5' Quadrangle, Riverside County, California, Sheet 1 of 3: U.S. Geological Survey, scale 1:24,000.

Regional Geologic Map

GEOTECHNICAL ENGINEERING INVESTIGATION
Proposed Fueling Station
Sandalwood Drive & 7th Street
Calimesa, California

SCALE:	DATE:
NOT TO SCALE	03/2021
DRAWN BY:	APPROVED BY:
JC	CJ
PROJECT NO.	FIGURE NO.
3-221-0096	3B

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Geologic Unit Explanation - Details

VERY YOUNG SURFICIAL MATERIALS—Sediment recently transported and deposited in channels and washes, on surfaces of alluvial fans and alluvial plains, in ephemeral lakes, and on hillslopes. Soil-profile development non-existent to weak. Includes:

Very young wash deposits (uppermost Holocene)—Sandy and gravelly sediment associated with stream channels and arroyos that are the sites of very recent sediment transport and deposition. Includes:

Qvywm — **Very young wash deposits, modern**—Very slightly to slightly consolidated sandy and gravelly sediment in active channels

Qvyw2 — **Very young wash deposits, unit 2**—Very slightly to slightly consolidated sandy and gravelly sediment that locally forms slightly elevated terraces along the margins of San Timoteo Creek

Qvyw1 — **Very young wash deposits, unit 1**—Very slightly to slightly consolidated sandy and gravelly sediment that locally forms slightly elevated terraces along the margins of San Timoteo Creek; surface supports mature trees and thin A horizons

Qvyfu — **Very young alluvial-fan deposits, undifferentiated (uppermost Holocene)**—Very slightly to slightly consolidated, undissected deposits of sandy and gravelly sediment that form actively sedimented parts of alluvial fans; occurs only locally

Qvylm — **Very young lacustrine deposits, modern (uppermost Holocene)**—Unconsolidated to slightly consolidated muddy and fine sandy sediment deposited in ephemeral lakes formed in lowlands by overbank flooding of San Jacinto River

YOUNG SURFICIAL DEPOSITS—Sedimentary units that are very slightly to moderately consolidated and slightly to moderately dissected. Alluvial-fan deposits (Qyf series) typically are sandy, but include subordinate gravelly sediment; axial-valley deposits (Qya series) are dominated by sandy sediment, with minor gravelly sediment and uncommon muddy sediment. Upper surfaces capped by slight to moderately developed pedogenic-soil profiles (A/AC to A/AC/Bcambic profiles having oxidized upper C horizon). Soil groups mapped by Knecht (1971) mainly are the Hanford and San Emigdio series, but include the Metz, Tujunga, and Grangeville series:

Young axial-valley deposits (Holocene and uppermost Pleistocene)—Slightly to moderately consolidated sandy, muddy, and gravelly sediment deposited by through-going streams of axial valleys; subunits distinguished on the basis of soil-profile development, relative position in the local terrace-riser succession, and degree of erosional dissection. Includes:

Qya5 — **Young axial-valley deposits, unit 5 (uppermost Holocene)**

Qya4 — **Young axial-valley deposits, unit 4 (upper Holocene)**

Qya3 — **Young axial-valley deposits, unit 3 (middle Holocene)**

Young alluvial-fan deposits (Holocene & uppermost Pleistocene)—Slightly to moderately consolidated sandy, gravelly, and muddy sediment deposited by streams flowing on alluvial-fan landforms. Units distinguished on the basis of soil-profile development and relative position in local terrace-riser succession. Includes:

Qyf5 — **Young alluvial-fan deposits, unit 5 (uppermost Holocene)**

Qyf4 — **Young alluvial-fan deposits, unit 4 (upper Holocene)**

Qyf3 — **Young alluvial-fan deposits, unit 3 (middle Holocene)**

Qyf1 — **Young alluvial-fan deposits, unit 1 (lower Holocene & uppermost Pleistocene)**

Qyfu — **Young alluvial-fan deposits, undifferentiated (lower Holocene & uppermost Pleistocene)**

Qyls — **Young landslide deposits (Holocene & uppermost Pleistocene)**—Slightly dissected slope-movement deposits. Locally may include old landslide material

Qyl5 — **Young lacustrine deposits, unit 5 (uppermost Holocene)**—Unconsolidated to slightly consolidated muddy and fine sandy sediment deposited in an ephemeral lake formed by flooding of San Jacinto River

OLD SURFICIAL DEPOSITS—Sedimentary units (Qof series, Qoa series) that are moderately consolidated, sandy and gravelly, and slightly to moderately dissected. Upper surfaces capped by moderately to well-developed pedogenic soils (A/AB/B/Cox profiles and Bt horizons as much as 1 to 2 m thick and maximum hues typically in the range of 10YR 5/4 and 6/4 [yellowish brown and light yellowish brown] through 7.5YR 6/4 to 4/4 [light brown to dark brown] but reaching 5YR 5/6 [yellowish red]). Soil groups mapped by Knecht (1971) include Greenfield series and weaker soils of Monserate and Ramona series. Includes:

Qosu — **Old surficial deposits, undifferentiated (upper to middle Pleistocene)**—Sandy and gravelly sediment of unspecified genesis

Old axial-valley deposits (upper to middle Pleistocene)—Moderately consolidated sandy and silty sediment and subordinate gravelly sediment deposited by through-going streams of axial valleys

Qoau — **Old axial-valley deposits, undifferentiated (upper to middle Pleistocene)**

Old alluvial-fan deposits (upper to middle Pleistocene)—Sandy, gravelly, and silty sediment deposited by streams that formed alluvial-fan landforms; subunits distinguished on the basis of soil-profile development, relative position in the local terrace-riser succession, and degree of erosional dissection. Includes:

Qof3 — **Old alluvial-fan deposits, unit 3 (upper Pleistocene)**

Qof2 — **Old alluvial-fan deposits, unit 2 (upper to middle Pleistocene)**

Qof1 — **Old alluvial-fan deposits, unit 1 (upper to middle Pleistocene)**

Qofu — **Old alluvial-fan deposits, undifferentiated (upper to middle Pleistocene)**

Qols — **Old landslide deposits (upper to middle Pleistocene)**—Moderately dissected slope-movement deposits. Probably inactive under current climatic and tectonic conditions

VERY OLD SURFICIAL DEPOSITS—Sedimentary units (Qvo series) that are moderately consolidated and moderately to well dissected. Consists mainly of alluvial-fan deposits (Qvof units) that typically are sandy and gravelly, but locally includes muddy sediment. Upper surfaces capped by moderate to well-developed pedogenic soils (A/AB/B/Cox profiles having Bt horizons as much as 2 to 3 m thick and maximum hues in the range of 7.5YR 6/4 to 4/4 [light brown to dark brown] to 2.5YR 5/6 [red]). Soil groups mapped by Knecht (1971) include stronger soils of the Ramona and Placentia series. Includes:

Qvors — **Very old residuum and (or) pedogenic soil (middle to lower Pleistocene)**—Consists of residuum and (or) pedogenic-soil profile developed on Sedimentary deposits of Live Oak Canyon (unit Qlo); has mature A/AB/B soil profile having Bt horizon as much as 3 m thick, and commonly laced with stringers, nodules, and irregular seams of $CaCO_3$ (caliche)

Very old alluvial-fan deposits (middle to lower Pleistocene)—Sandy and gravelly deposits having subunits distinguished from each other on the basis of soil-profile development and relative position in local terrace-riser succession. Includes:

Qvof3 — **Very old alluvial-fan deposits, unit 3 (middle Pleistocene)**

Qvofu — **Very old alluvial-fan deposits, undifferentiated (middle Pleistocene)**

CENOZOIC SEDIMENTARY MATERIALS

Qlo — **Sedimentary deposits of Live Oak Canyon (Pleistocene)**—Unconsolidated and consolidated nonmarine sedimentary material; sediment typically moderately consolidated, rock well consolidated to lithified. Mainly consists of gravelly and conglomeratic material interbedded with subequal sandy sediment and rock; muddy sediment and mudrock minor

San Timoteo formation of Frick (1921) (Pleistocene & Pliocene)—Nonmarine sediment and sedimentary rock referred to by Frick (1921, p. 283, 317) as his "San Timoteo formation" or "Upper San Timoteo Deposition". Sandy and conglomeratic rocks contain clasts derived from crystalline rocks of Transverse Ranges-type; clasts of Peninsular Ranges-type do not occur. Throughout its regional extent, formation ranges in age from Pliocene to early Pleistocene (Albright, 1999). Until a type section is designated and described, map unit is classified informally. Subdivided into:

Tstm — **Middle member (upper and middle Pliocene)**—Forms middle part of San Timoteo formation. Consists of four principal lithologies that recur throughout sequence: (1) thick sheet-like layers of conglomeratic rock; (2) light-gray to white sandstone and slightly conglomeratic sandstone; (3) reddish mudstone and sandstone; and (4) locally significant but minor grayish-green mudrock. Lithologies (1) and (3) distinguish middle member from other members of formation. Lower contact transitional across intervals as thick as 50 m, and unit appears to interfinger southeastward and eastward with underlying lower member; upper contact not exposed in quadrangle, but in adjacent Sunnymead quadrangle the middle member is transitional with overlying upper member. Pliocene age (Blancan) based on magnetostratigraphic correlation and stratigraphic relations with underlying and overlying units that contain vertebrate fossils (Albright, 1999).

Lower member (lower Pliocene)—Forms lower part of San Timoteo formation of Frick (1921). Subdivided into:

Tstls — **Sandstone unit (lower Pliocene)**—Consists dominantly of sandy rock interbedded with sparse conglomeratic rock; mudrock minor, except in stratigraphic sequence west of Moreno Valley strand of San Jacinto Fault at west edge of quadrangle. Rock is well consolidated to lithified, with some intervals cemented by calcareous and (or) siliceous cement. Contact with overlying middle member (unit Tstm) is transitional across stratigraphic interval as much as 50 m thick

Tstlr — **Ripple-laminated unit (lower Pliocene)**—Consists of two distinctive interbedded lithologies: (1) ledge-forming ripple-laminated sandstone and (2) recessive greenish-gray mudstone

Tstlf — **Fine-grained unit (lower Pliocene)**—Mainly light-gray to grayish-brown mudstone and calcareous mudstone that are fissil- and chippy-weathering, and that form recessive slopes. Rock texturally massive to faintly laminated, locally has mudcracks and rain-drop impressions, and locally contains thin nodules, needles, and seams if gypsum. Early Pliocene age (Blancan) based on magnetostratigraphic correlation and stratigraphic relations with underlying and overlying units that contain vertebrate fossils (Albright, 1999)

Mt. Eden formation of Frick (1921), revised herein (upper Miocene)—Nonmarine sedimentary rock referred to by Frick (1921, p. 283, 317) as his "Eden formation" or "Lower San Timoteo Deposition". Upper part of formation is late Miocene in age (late Hemphillian) on the basis of vertebrate fossils collected from the Mt. Eden area (Frick, 1921; May and Repenning, 1982; Albright, 1999). Until a type section is designated, unit is classified informally. Subdivided into:

Tmeh — **Heterogeneous member (upper Miocene)**—In Mt. Eden area, forms upper part of "Eden formation" of Frick (1921). Includes several lithotypes, two of which Frick (1921) emphasized in his original characterization: (1) slope-forming, greenish-gray mudstone, and (2) white nodular and lenticular limestone. Also includes (3) lithic arkosic sandstone and conglomeratic sandstone, and (4) greenish-gray siltstone and fine bioitic sandstone. These lithotypes occur in variable proportions throughout the member, although the finer grained rocks occur mainly in its upper part. Sandy and conglomeratic rocks contain clasts derived exclusively from crystalline rocks of Peninsular Ranges-type. Most of the vertebrate fossils collected by Frick (1921) are from this member where it crops out on the north slope of Mt. Eden.

Tmea — **Arkosic and lithic member (upper Miocene)**—Forms most of Mt. Eden formation in both Mt. Eden area and Laborde Canyon. At any specified location unit is fairly homogeneous in lithology; however, the unit in Mt. Eden area tends to be more brownish than in Laborde Canyon area, where rock tends to be more grayish. In all instances, rock is well consolidated to lithified, is recessive and slope-forming rather than ledgeforming, is thin- to very thick bedded to crudely stratified, and contains angular to subrounded particles derived exclusively from crystalline rocks of Peninsular Ranges-type (aplite, gneiss, metaquartzite, marble, schist, and granitoids). Sandy rock predominates over conglomeratic rock. Depositional fabrics mainly texturally massive, less commonly crudely flat laminated; cross laminations (shallow trough laminations, small-scale tabular laminations) present but not common; sedimentary structures better developed in finer grained rock than coarser-grained rock

Tmeb — **Boulder conglomerate member (upper Miocene)**—Lenticular bodies of monolithologic conglomerate interstratified with unit Tmea. Particle size ranges from pebbles to boulders as much as 6 m in dimension, with larger particles surrounded by grusy sand- and granule-size matrix; particles consist of biotite-hornblende tonalite identical to tonalite of Lamb Canyon (unit Ktlc)

Tmes — **Sandstone marker unit (Miocene)**—Thin lenticular interval of lithified, ledge-forming, light-gray, laminated to cross laminated and cross bedded, moderately sorted to well sorted sandstone and slightly gravelly sandstone with minor granule conglomerate

MESOZOIC AND PRE-MESOZOIC CRYSTALLINE ROCKS NORTH OF BANNING FAULT (crystalline rocks of San Gabriel Mountains-type)

fcr — **Foliated crystalline rock (Mesozoic and older)**—Fine- to coarse-grained, foliated to gneissose granodiorite, tonalite, and quartz diorite that have a variety of non-penetrative and penetrative fabrics, including fractured, sheared, and crushed rock, brittle cataclastic fabrics (grain crushing and fracturing), and ductile mylonitic fabrics (milling, fluxion structure). Rock mainly biotitic and chloritic; hornblende subordinate to rare. Forms upper plate of region-wide Vincent Thrust of eastern San Gabriel Mountains

Mzd — **Diorite (Mesozoic)**—Medium- to coarse-grained, texturally massive to slightly foliated hornblende-biotite diorite and quartz diorite. Age and intrusive relations with unit Mzmg uncertain

MESOZOIC AND PRE-MESOZOIC CRYSTALLINE ROCKS SOUTH OF BANNING FAULT (crystalline rocks of Peninsular Ranges-type)

Kmeg — **Granitic rocks of Mt. Eden (Cretaceous)**—Very pale-brown, texturally massive to foliated, inequigranular to coarse-grained muscovite-garnet monzogranite; locally forms dike-like masses. Fresh rock is white, and has bright-pink garnets that impart distinctive appearance. Grain size ranges from fine to coarse, with grain size varying on a small scale. Forms unmapped dikes and sills in adjacent metasedimentary rock (unit ms)

Ktlc — **Tonalite of Lamb Canyon (Cretaceous)**—Equigranular to slightly foliated, medium- to coarse-grained biotite tonalite. Zircon from rock at the head of Lamb Canyon in the adjacent Beaumont quadrangle has Pb/U age of 94 Ma; sphene yields Pb/U age of 92.8 Ma (W. Premo, written commun. to D.M. Morton)

Khg — **Heterogeneous granitic rocks (Cretaceous)**—Heterogeneous mixture of granitic rocks containing abundant gneiss and schist. Granitic rocks range in composition from hornblende-rich tonalite to leucocratic tonalite and from potassium-feldspar free rocks to granodiorite

ms — **Metasedimentary rocks, undivided (?Mesozoic and older)**—Layered and foliated biotite-quartz gneiss associated with thin unmapped zones of white marble and metaquartzite; locally intermingled with unmapped dikes and sills of Granite of Mt. Eden (Kmeg)

m — **Marble (?Mesozoic and older)**—White to light gray, coarse-grained marble with minor pods of calc-silicate rock

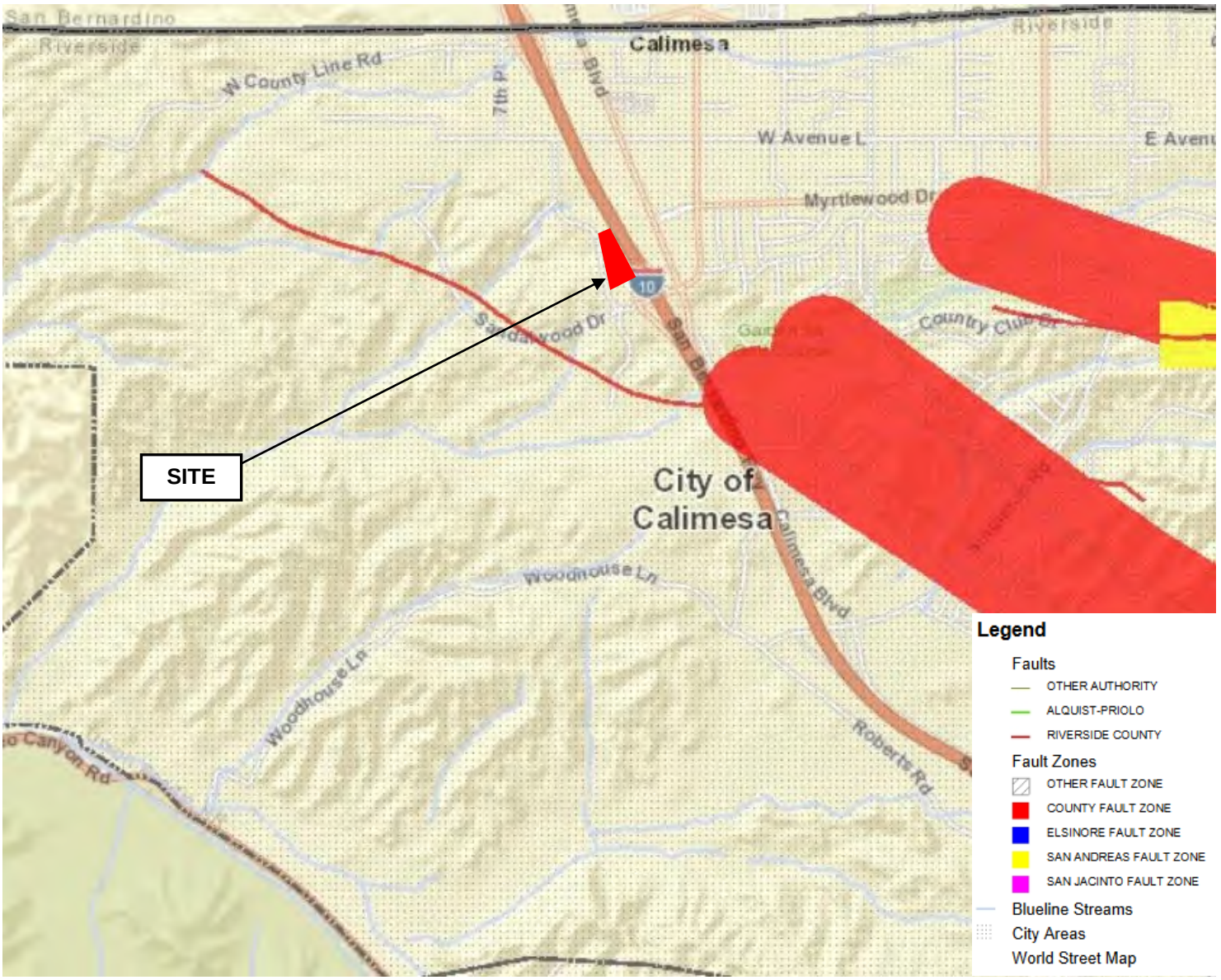
Morton, Douglas M., and Matti, Jonathan C. (2015), Geologic Map of the El Casco 7.5' Quadrangle, Riverside County, California, Sheet 1 of 3: U.S. Geological Survey, scale 1:24,000.

Regional Geologic Map

GEOTECHNICAL ENGINEERING INVESTIGATION
Proposed Fueling Station
Sandalwood Drive & 7th Street
Calimesa, California

SCALE:	DATE:
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PROJECT NO.	FIGURE NO.
3-221-0096	3C

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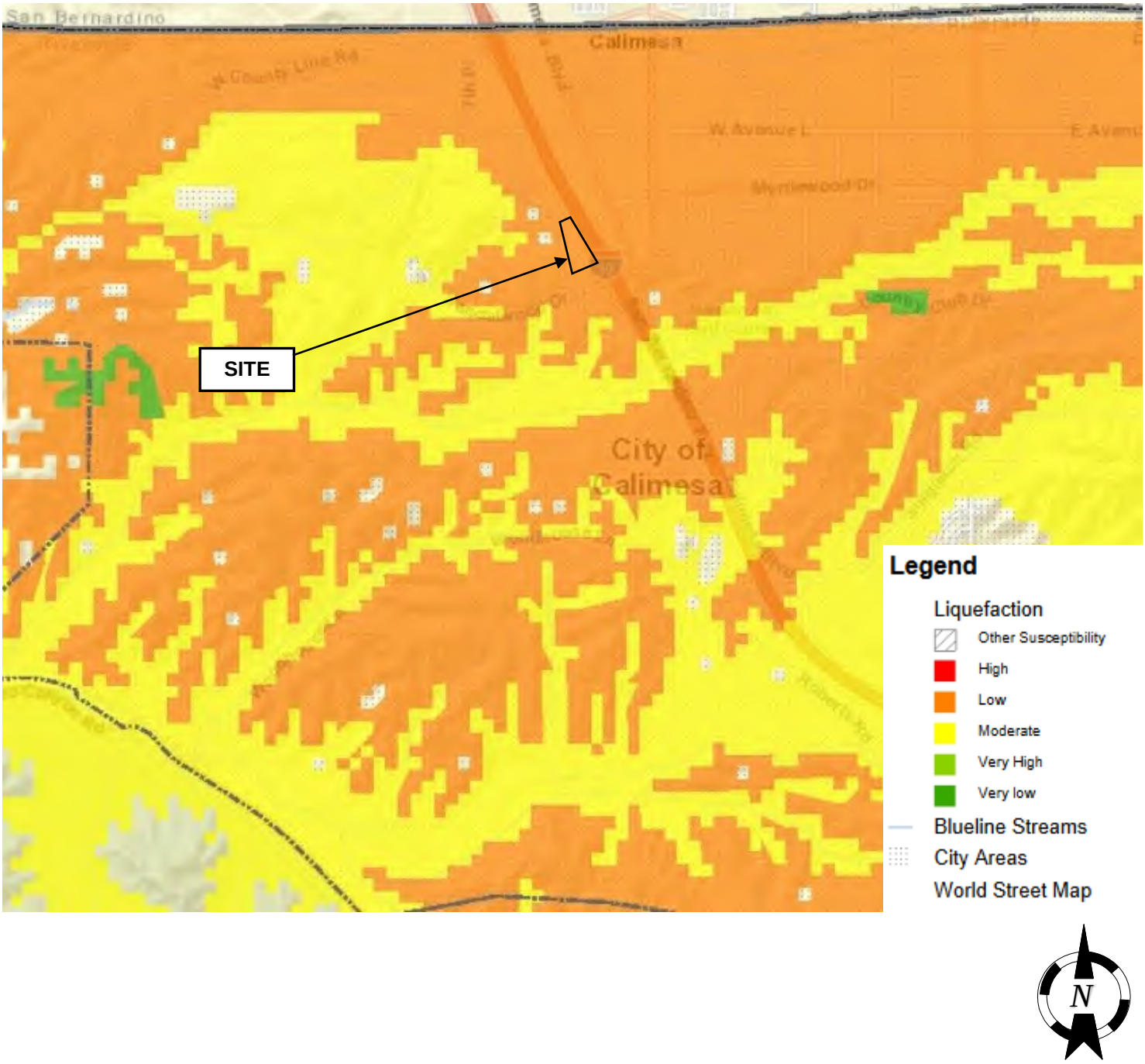
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Fault Map

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Proposed Fueling Station
Sandalwood Drive & 7th Street
Calimesa, California

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3-221-0096	4

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Liquefaction Potential Zone Map

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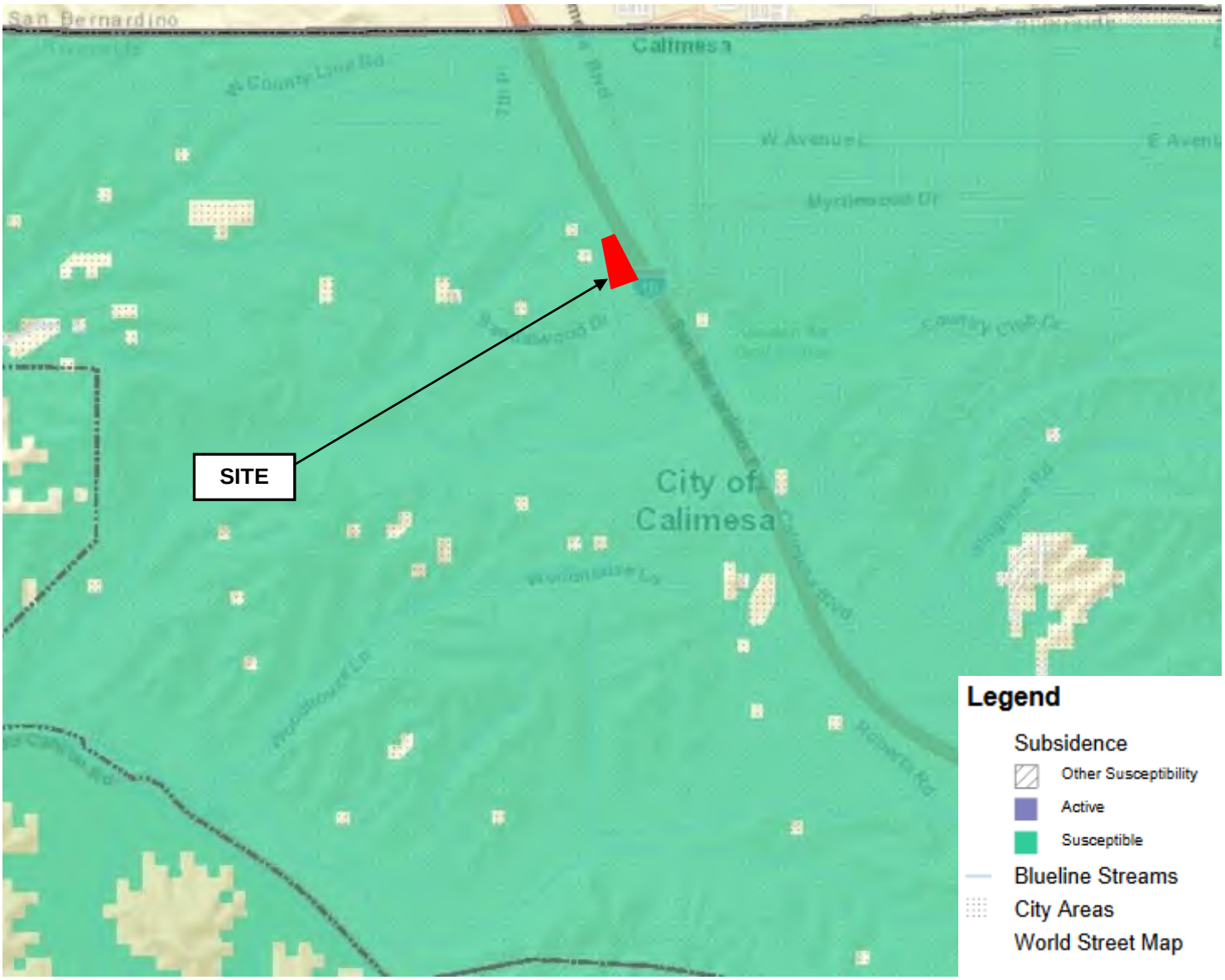
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Flood Zone Map

GEOTECHNICAL ENGINEERING INVESTIGATION
Proposed Fueling Station
Sandalwood Drive & 7th Street
Calimesa, California

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Subsidence Zone Map

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JC	CJ
PROJECT NO.	FIGURE NO.
3-221-0096	7

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APPENDIX

A

APPENDIX A
FIELD EXPLORATION

Fieldwork for our investigation (drilling) was conducted on February 9 and 10, 2021 and included a site visit, subsurface exploration, and soil sampling. The locations of the exploratory borings are shown on the Site Plan, Figure 2. Boring logs for our exploration are presented in figures following the text in this appendix. Borings were located in the field using existing reference points. Therefore, actual boring locations may deviate slightly.

In general, our borings were performed using a truck-mounted CME 45C drill rig equipped with 6½-inch diameter hollow stem augers. Sampling in the borings was accomplished using a hydraulic 140-pound hammer with a 30-inch drop. Samples were obtained with a 3-inch outside-diameter (OD), split spoon (California Modified) sampler, and a 2-inch OD, Standard Penetration Test (SPT) sampler. The number of blows required to drive the sampler the last 12 inches (or fraction thereof) of the 18-inch sampling interval were recorded on the boring logs. The blow counts shown on the boring logs should not be interpreted as standard SPT "N" values; corrections have not been applied. Upon completion, the borings were backfilled with soil cuttings.

Subsurface conditions encountered in the exploratory borings were visually examined, classified and logged in general accordance with the American Society for Testing and Materials (ASTM) Practice for Description and Identification of Soils (Visual-Manual Procedure D2488). This system uses the Unified Soil Classification System (USCS) for soil designations. The logs depict soil and geologic conditions encountered and depths at which samples were obtained. The logs also include our interpretation of the conditions between sampling intervals. Therefore, the logs contain both observed and interpreted data. We determined the lines designating the interface between soil materials on the logs using visual observations, drill rig penetration rates, excavation characteristics and other factors. The transition between materials may be abrupt or gradual. Where applicable, the field logs were revised based on subsequent laboratory testing.

Test Boring: B-1 **Page** 1 **Of:** 2

Project Number: 3-221-0096

Date: 02/09/2021

Client: J&T Management

Project: Proposed Fueling Station

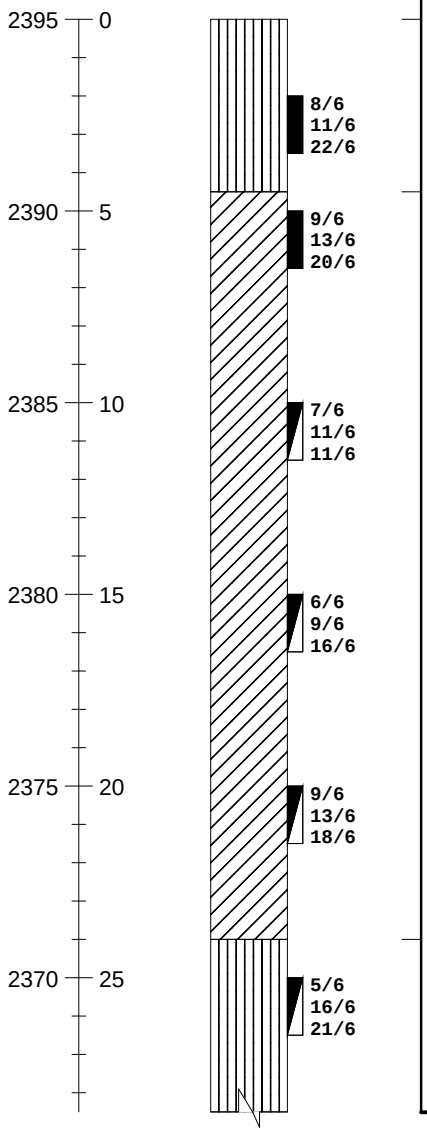
Location: Sandalwood Drive & 7th Street, Calimesa, California

Drilled By: SALEM **Logged By:** JC

Drill Type: CME 45C **Elevation:** 2395'

Auger Type: 6.5 in. Hollow Stem Auger **Initial Depth to Groundwater:** N/A

Hammer Type: Automatic Trip - 140 lb/30 in **Final Depth to Groundwater:** N/A



ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS AND FIELD TEST DATA	USCS	Soil Description	N-Values blows/ft.	Moisture Content %	Dry Density, PCF	Remarks
		ML	Sandy SILT Very stiff; moist; brown; fine grain sand; with clay.	33	9.9	115.9	
		CL	CLAY with Sand Very stiff; moist; yellowish brown; fine grain sand.	33	15.1	109.4	
			Grades as above.	22	14.8	-	
			Grades as above; olive.	25	19.7	-	
			Grades as above; hard; brown.	31	20.2	-	
		ML	Sandy SILT Hard; moist; brown; fine grain sand	37	12.3	-	

Notes:

Figure Number A-1

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Project Number: 3-221-0096
Date: 02/09/2021
Test Boring: B-1

ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS AND FIELD TEST DATA	USCS	Soil Description	N-Values blows/ft.	Moisture Content %	Dry Density, PCF	Remarks
2365 — 30	14/6 15/6 21/6		Grades as above.	36	14.7	-	
	5/6 16/6 29/6	SM/ML	Silty SAND/Sandy SILT Dense; moist; yellowish brown; fine grain sand.	45	10.9	-	
2360 — 35			Auger refusal at 34.5 feet BSG.				
2355 — 40							
2350 — 45							
2345 — 50							
2340 — 55							
2335 — 60							

Notes:

Figure Number A-1

Test Boring: B-2 **Page** 1 **Of:** 1

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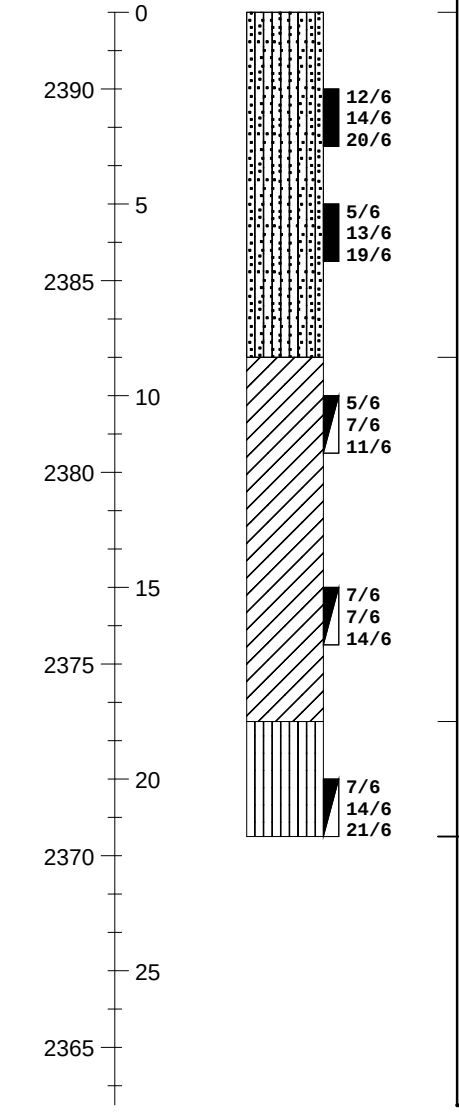
Location: Sandalwood Drive & 7th Street, Calimesa, California

Drilled By: SALEM **Logged By:** JC

Drill Type: CME 45C **Elevation:** 2392'

Auger Type: 6.5 in. Hollow Stem Auger **Initial Depth to Groundwater:** N/A

Hammer Type: Automatic Trip - 140 lb/30 in **Final Depth to Groundwater:** N/A



ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS AND FIELD TEST DATA	USCS	Soil Description	N-Values blows/ft.	Moisture Content %	Dry Density, PCF	Remarks
		SM/ML	Silty SAND/Sandy SILT Medium dense; moist; brown; fine to medium grain sand; trace clay.	36	13.9	115.6	
			Grades as above.	32	14.4	116.5	
		CL	Sandy CLAY Very stiff; moist; brown; fine grain sand.	18	17.4	-	
		CL	Silty CLAY with Sand Very stiff; very moist; yellowish brown; fine grain sand.	21	21.2	-	
		ML	Sandy SILT Hard; moist; brown; fine grain sand; trace clay.	35	16.8	-	
			End of boring at 21.5 feet BSG.				

Notes:

Figure Number A-2

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Test Boring: B-3 **Page** 1 **Of:** 1

Project Number: 3-221-0096

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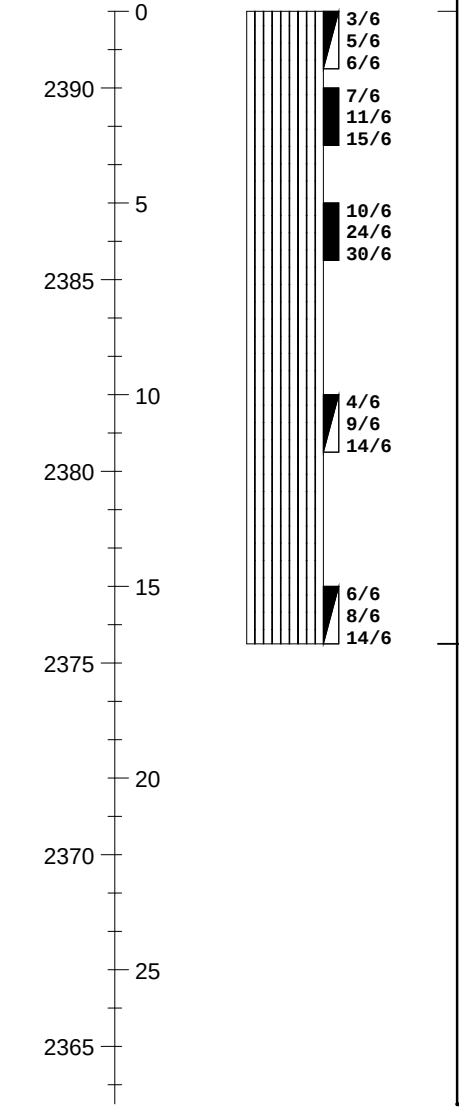
Location: Sandalwood Drive & 7th Street, Calimesa, California

Drilled By: SALEM **Logged By:** JC

Drill Type: CME 45C **Elevation:** 2392'

Auger Type: 6.5 in. Hollow Stem Auger **Initial Depth to Groundwater:** N/A

Hammer Type: Automatic Trip - 140 lb/30 in **Final Depth to Groundwater:** N/A



ELEVATION/ DEPTH (feet)	USCS	Soil Description	N-Values blows/ft.	Moisture Content %	Dry Density, PCF	Remarks
0	ML	Sandy SILT Stiff; moist; brown; fine grain sand.	11	13.4	-	
2390		Grades as above; very stiff.	26	15.0	108.2	
5		Grades as above; hard; with clay.	54	14.8	117.8	
2385						
10		Grades as above; very stiff; no clay.	23	14.4	-	
2380						
15	ML	Clayey SILT with Sand Very stiff; very moist; brown; fine grain sand.	22	20.2	-	
2375		End of boring at 16.5 feet BSG.				
20						
2370						
25						
2365						

Notes:

Figure Number A-3

Test Boring: B-4 **Page** 1 **Of:** 1

Project Number: 3-221-0096

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Client: J&T Management

Project: Proposed Fueling Station

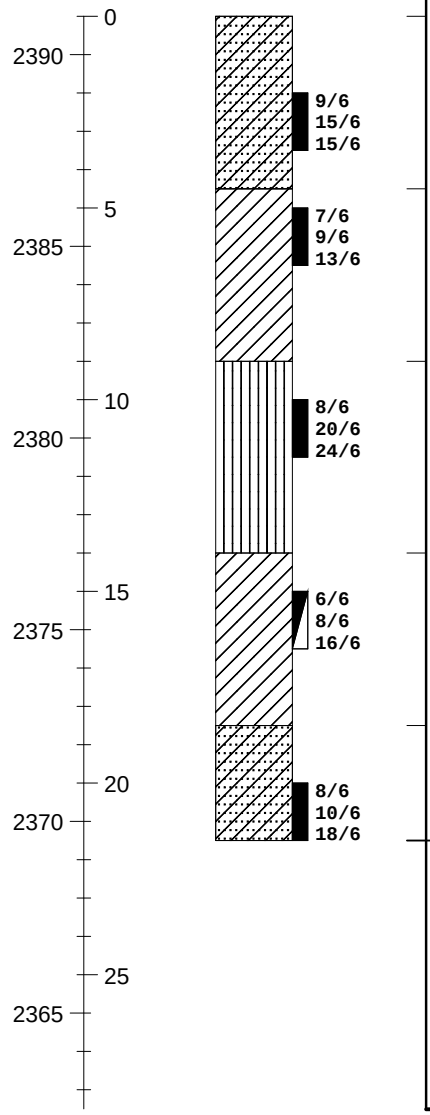
Location: Sandalwood Drive & 7th Street, Calimesa, California

Drilled By: SALEM **Logged By:** JC

Drill Type: CME 45C **Elevation:** 2391'

Auger Type: 6.5 in. Hollow Stem Auger **Initial Depth to Groundwater:** N/A

Hammer Type: Automatic Trip - 140 lb/30 in **Final Depth to Groundwater:** N/A



ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS AND FIELD TEST DATA	USCS	Soil Description	N-Values blows/ft.	Moisture Content %	Dry Density, PCF	Remarks
		SC	Clayey SAND Medium dense; very moist; brown; fine grain sand.	30	16.2	110.0	
		CL	Sandy CLAY Very stiff; moist; brown; fine grain sand.	22	14.3	112.0	
		ML	SILT with Sand Hard; very moist; brown; fine grain sand.	44	16.4	116.0	
		CL	Silty CLAY with Sand Very stiff; very moist; brown; fine grain sand.	24	21.3	-	
		SC	Clayey SAND Medium dense; very moist; brown; fine grain sand.	28	15.1	110.7	
			End of boring at 21.5 feet BSG.				

Notes:

Figure Number A-4

Test Boring: B-5 **Page** 1 **Of:** 1

Project Number: 3-221-0096

Date: 02/09/2021

Client: J&T Management

Project: Proposed Fueling Station

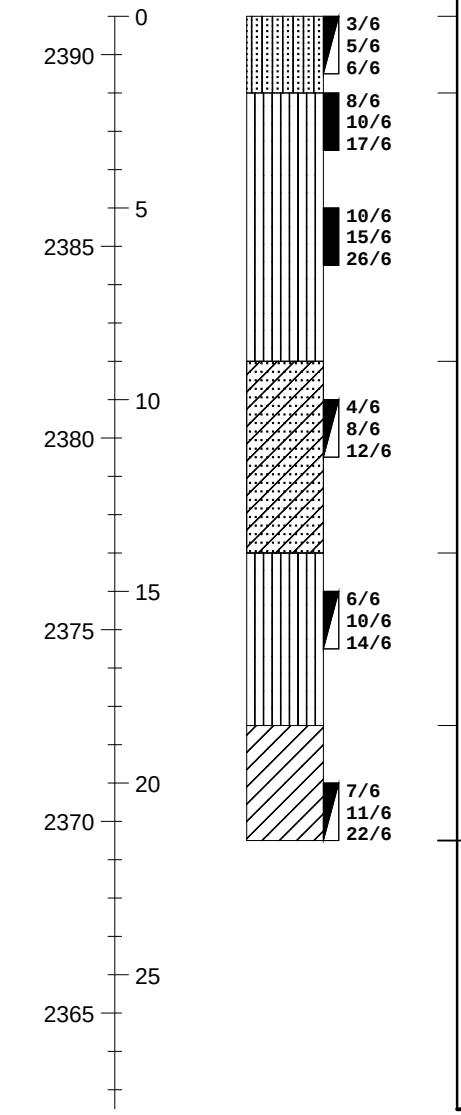
Location: Sandalwood Drive & 7th Street, Calimesa, California

Drilled By: SALEM **Logged By:** JC

Drill Type: CME 45C **Elevation:** 2391'

Auger Type: 6.5 in. Hollow Stem Auger **Initial Depth to Groundwater:** N/A

Hammer Type: Automatic Trip - 140 lb/30 in **Final Depth to Groundwater:** N/A



ELEVATION/ DEPTH (feet)	USCS	Soil Description	N-Values blows/ft.	Moisture Content %	Dry Density, PCF	Remarks
	SM	Silty SAND Medium dense; moist; brown; fine to medium grain sand.	11	9.2	-	
	ML	Sandy SILT Very stiff; moist; brown; fine grain sand; with clay.	27	14.4	118.0	
		Grades as above; hard; yellowish brown.	41	14.7	110.8	
	SC	Clayey SAND Medium dense; very moist; reddish brown; fine grain sand.	20	14.2	-	
	ML	Sandy SILT Very stiff; moist; brown; fine grain sand; trace clay.	24	11.3	-	
	CL	Silty CLAY Hard; very moist; brown.	33	30.8	-	
		End of boring at 21.5 feet BSG.				

Notes:

Figure Number A-5

Test Boring: B-6 **Page** 1 **Of:** 1

Project Number: 3-221-0096

Date: 02/09/2021

Client: J&T Management

Project: Proposed Fueling Station

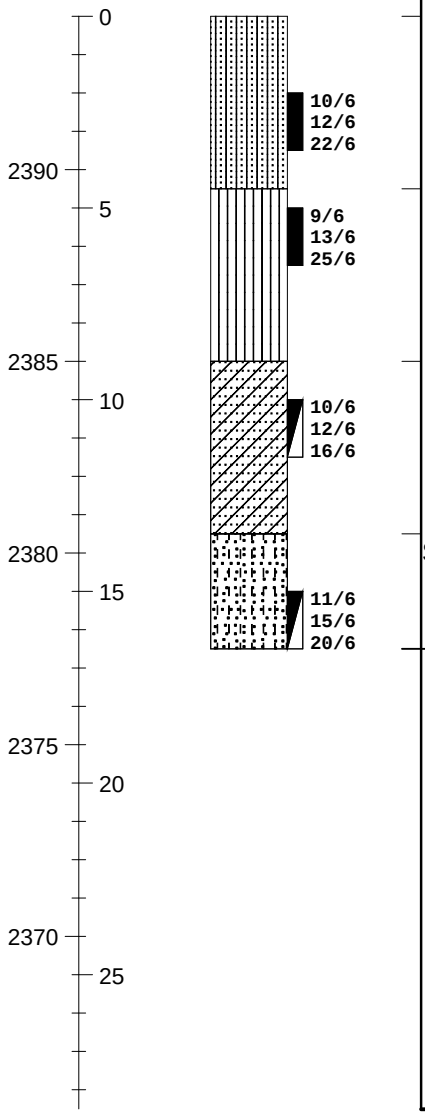
Location: Sandalwood Drive & 7th Street, Calimesa, California

Drilled By: SALEM **Logged By:** JC

Drill Type: CME 45C **Elevation:** 2394'

Auger Type: 6.5 in. Hollow Stem Auger **Initial Depth to Groundwater:** N/A

Hammer Type: Automatic Trip - 140 lb/30 in **Final Depth to Groundwater:** N/A



ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS AND FIELD TEST DATA	USCS	Soil Description	N-Values blows/ft.	Moisture Content %	Dry Density, PCF	Remarks
		SM	Silty SAND Medium dense; moist; brown; fine to medium grain sand.	34	11.0	123.1	
		ML	SILT with Sand Very stiff; moist; brown; fine grain sand; with clay.	38	16.4	112.2	
		SC	Clayey SAND Medium densse; moist; brown; fine grain sand.	28	11.1	-	
		SP-SM	Poorly graded SAND Dense; slightly moist; brown; fine to coarse grain sand.	35	2.5	-	
			End of boring at 16.5 feet BSG.				

Notes:

Figure Number A-6

SALEM engineering group, inc.

Test Boring: B-7 **Page** 1 **Of:** 1

Project Number: 3-221-0096

Date: 02/09/2021

Client: J&T Management

Project: Proposed Fueling Station

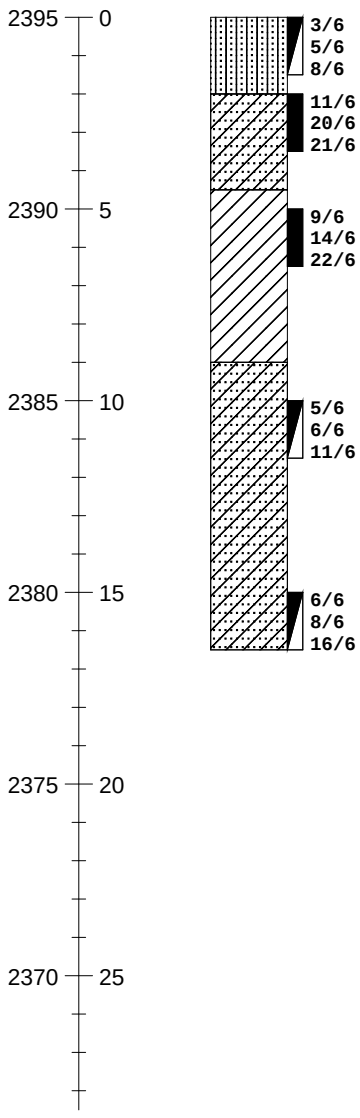
Location: Sandalwood Drive & 7th Street, Calimesa, California

Drilled By: SALEM **Logged By:** JC

Drill Type: CME 45C **Elevation:** 2395'

Auger Type: 6.5 in. Hollow Stem Auger **Initial Depth to Groundwater:** N/A

Hammer Type: Automatic Trip - 140 lb/30 in **Final Depth to Groundwater:** N/A



ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS AND FIELD TEST DATA	USCS	Soil Description	N-Values blows/ft.	Moisture Content %	Dry Density, PCF	Remarks
		SM	Silty SAND Medium dense; moist; brown; fine to medium grain sand.	13	10.4	-	
		SC	Clayey SAND Dense; very moist; brown; fine grain sand.	41	13.8	122.8	
		CL	Sandy CLAY Very stiff; very moist; brown; fine grains sand.	36	17.7	111.3	
		SC	Clayey SAND Medium dense; moist; brown; fine grain sand.	17	16.9	-	
			Grades as above.	24	14.6	-	
			End of boring at 16.5 feet BSG.				

Notes:

Figure Number A-7

Test Boring: B-8 **Page** 1 **Of:** 1

Project Number: 3-221-0096

Date: 02/09/2021

Client: J&T Management

Project: Proposed Fueling Station

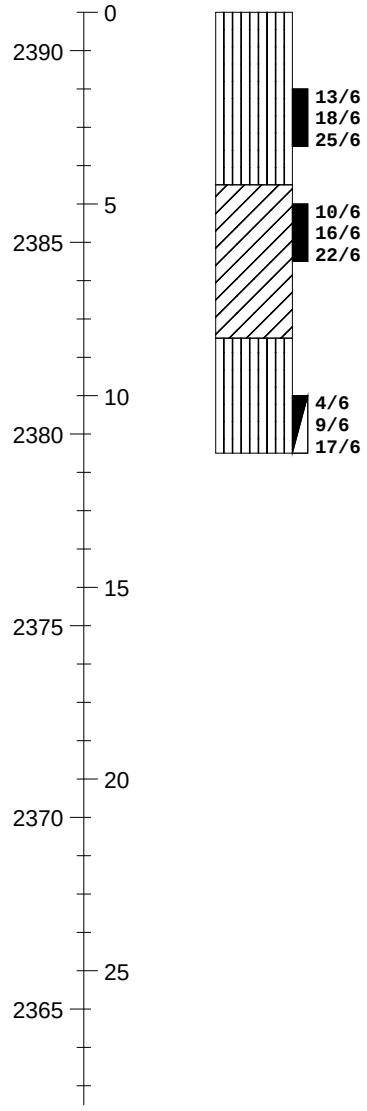
Location: Sandalwood Drive & 7th Street, Calimesa, California

Drilled By: SALEM **Logged By:** JC

Drill Type: CME 45C **Elevation:** 2391'

Auger Type: 6.5 in. Hollow Stem Auger **Initial Depth to Groundwater:** N/A

Hammer Type: Automatic Trip - 140 lb/30 in **Final Depth to Groundwater:** N/A



ELEVATION/ DEPTH (feet)	USCS	Soil Description	N-Values blows/ft.	Moisture Content %	Dry Density, PCF	Remarks
	ML	Sandy SILT Hard; moist; brown; fine grain sand.	43	13.5	115.8	
	CL	Sandy CLAY Very stiff; very moist; brown; fine grain sand.	38	18.4	109.5	
	ML	Sandy SILT Very stiff; very moist; brown; fine grain sand.	26	15.4	-	
		End of boring at 11.5 feet BSG.				

Notes:

Figure Number A-8

Test Boring: B-9 **Page** 1 **Of:** 1

Project Number: 3-221-0096

Date: 02/09/2021

Client: J&T Management

Project: Proposed Fueling Station

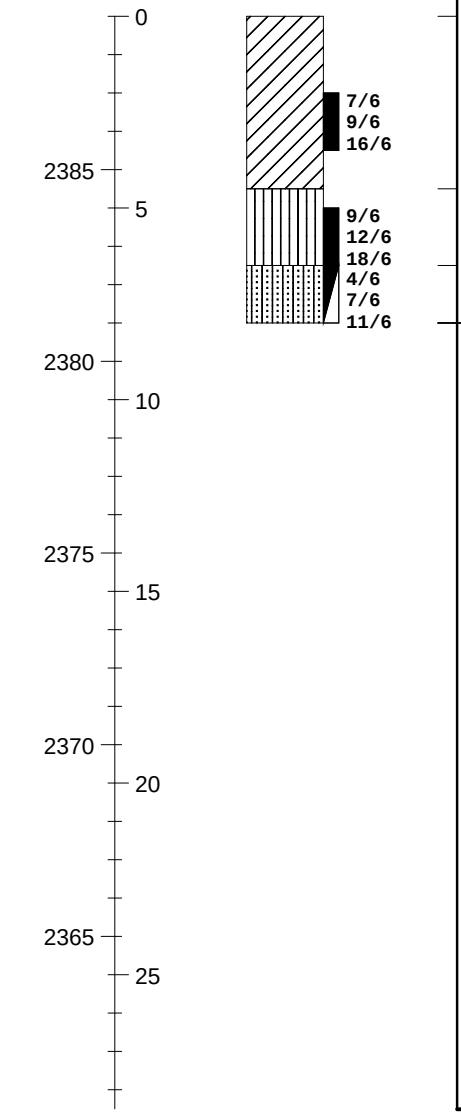
Location: Sandalwood Drive & 7th Street, Calimesa, California

Drilled By: SALEM **Logged By:** JC

Drill Type: CME 45C **Elevation:** 2389'

Auger Type: 6.5 in. Hollow Stem Auger **Initial Depth to Groundwater:** N/A

Hammer Type: Automatic Trip - 140 lb/30 in **Final Depth to Groundwater:** N/A



ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS AND FIELD TEST DATA	USCS	Soil Description	N-Values blows/ft.	Moisture Content %	Dry Density, PCF	Remarks
		CL	Sandy CLAY Very stiff; moist; brown; fine grain sand.	25	15.7	115.2	
		ML	Sandy SILT Very stiff; very moist; brown; fine grain sand; with clay.	30	20.8	105.4	
		SM	Silty SAND Medium dense; very moist; brown; fine grain sand.	18	14.6	-	
			End of boring at 8 feet BSG.				

Notes:

Figure Number A-9

SALEM
engineering group, inc.

Test Boring: B-10 **Page** 1 **Of:** 1

Project Number: 3-221-0096

Date: 02/09/2021

Client: J&T Management

Project: Proposed Fueling Station

Location: Sandalwood Drive & 7th Street, Calimesa, California

Drilled By: SALEM **Logged By:** JC

Drill Type: CME 45C **Elevation:** 2390'

Auger Type: 6.5 in. Hollow Stem Auger **Initial Depth to Groundwater:** N/A

Hammer Type: Automatic Trip - 140 lb/30 in **Final Depth to Groundwater:** N/A

ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS AND FIELD TEST DATA	USCS	Soil Description	N-Values blows/ft.	Moisture Content %	Dry Density, PCF	Remarks
2390 — 0	18/6 25/6 29/6	ML	Sandy SILT Hard; very moist; brown; fine grain sand.	54	16.5	114.0	
2385 — 5	6/6 3/6 5/6	SC	Clayey SAND Loose; moist; brown; fine grain sand.	8	10.0	110.5	
			End of boring at 6.5 feet BSG.				
2380 — 10							
2375 — 15							
2370 — 20							
2365 — 25							

Notes:

Figure Number A-10

KEY TO SYMBOLS

Symbol Description

Strata symbols


Silt


Lean Clay


Silty Sand/Sandy Silt


Clayey sand


Silty sand


Poorly graded sand with silt

Misc. Symbols


Drill rejection


Boring continues

Soil Samplers


California sampler


Standard penetration test

Notes:

Granular Soils
Blows Per Foot (Uncorrected)

	MCS	SPT
Very loose	<5	<4
Loose	5-15	4-10
Medium dense	16-40	11-30
Dense	41-65	31-50
Very dense	>65	>50

Cohesive Soils
Blows Per Foot (Uncorrected)

	MCS	SPT
Very soft	<3	<2
Soft	3-5	2-4
Firm	6-10	5-8
Stiff	11-20	9-15
Very Stiff	21-40	16-30
Hard	>40	>30

MCS = Modified California Sampler
SPT = Standard Penetration Test Sampler

Percolation Test Worksheet

Project: **Proposed Fueling Station**
Sandalwood Drive & 7th Street
Calimesa, CA

Job No.: **3-221-0096**
Date Drilled: **2/9/2021**
Soil Classification: **Silty SAND**

Hole Radius: 4 in.
Pipe Dia.: 3 in.
Total Depth of Hole: 96 in.

Test Hole No.: **P-1**
Tested by: **JC**
Drilled Hole Depth: **8.0** ft.

Presoaking Date: **2/9/2021**
Test Date: **2/10/2021**

Pipe Stick up: 1.4 ft.

Time Start	Time Finish	Depth of Test Hole (ft)#	Refill-Yes or No	Elapsed Time (hrs:min)	Initial Water Level# (ft)	Final Water Level# (ft)	Δ Water Level (in.)	Δ Min.	Meas. Perc Rate (min/in)	Initial Height of Water (in)	Final Height of Water (in)	Average Height of Water (in)	Infiltration Rate, It (in/hr)
7:00	7:30	9.4	**Y**	0:30	5.15	6.18	12.36	30	2.4	51.0	38.6	44.8	1.06
7:30	8:00	9.4	N	0:30	6.18	6.93	9.00	30	3.3	38.6	29.6	34.1	1.00
8:00	8:30	9.4	N	0:30	6.93	7.50	6.84	30	4.4	29.6	22.8	26.2	0.97
8:30	9:00	9.4	N	0:30	7.50	7.94	5.28	30	5.7	22.8	17.5	20.2	0.95
9:00	9:30	9.4	N	0:30	7.94	8.28	4.08	30	7.4	17.5	13.4	15.5	0.93
9:30	10:00	9.4	N	0:30	8.28	8.55	3.24	30	9.3	13.4	10.2	11.8	0.94
10:02	10:32	9.4	**Y**	0:30	5.20	6.10	10.80	30	2.8	50.4	39.6	45.0	0.92
10:32	11:02	9.4	N	0:30	6.10	6.82	8.64	30	3.5	39.6	31.0	35.3	0.93
11:02	11:32	9.4	N	0:30	6.82	7.40	6.96	30	4.3	31.0	24.0	27.5	0.94
11:32	12:02	9.4	N	0:30	7.40	7.85	5.40	30	5.6	24.0	18.6	21.3	0.93
12:02	12:32	9.4	N	0:30	7.85	8.20	4.20	30	7.1	18.6	14.4	16.5	0.91
12:32	13:02	9.4	N	0:30	8.20	8.48	3.36	30	8.9	14.4	11.0	12.7	0.91
Recommended for Design:										**Infiltration Rate**			**0.91**

SALEM engineering group, inc.

Percolation Test Worksheet

Project: **Proposed Fueling Station**
Sandalwood Drive & 7th Street
Calimesa, CA

Job No.: **3-221-0096**
Date Drilled: **2/9/2021**
Soil Classification: **Clayey SAND**

Hole Radius: 4 in.
Pipe Dia.: 3 in.
Total Depth of Hole: 84 in.

Test Hole No.: **P-2**
Tested by: **JC**
Drilled Hole Depth: **7.0** ft.

Presoaking Date: **2/9/2021**
Test Date: **2/10/2021**

Pipe Stick up: 1.8 ft.

Time Start	Time Finish	Depth of Test Hole (ft)#	Refill- Yes or No	Elapsed Time (hrs:min)	Initial Water Level# (ft)	Final Water Level# (ft)	Δ Water Level (in.)	Δ Min.	Meas. Perc Rate (min/in)	Initial Height of Water (in)	Final Height of Water (in)	Average Height of Water (in)	Infiltration Rate, It (in/hr)
7:10	7:40	8.8	**Y**	0:30	5.01	5.05	0.48	30	62.5	45.5	45.0	45.2	0.04
7:40	8:10	8.8	N	0:30	5.05	5.07	0.24	30	125.0	45.0	44.8	44.9	0.02
8:10	8:40	8.8	N	0:30	5.07	5.09	0.24	30	125.0	44.8	44.5	44.6	0.02
8:40	9:10	8.8	N	0:30	5.09	5.10	0.12	30	250.0	44.5	44.4	44.5	0.01
9:10	9:40	8.8	N	0:30	5.10	5.11	0.12	30	250.0	44.4	44.3	44.3	0.01
9:40	10:10	8.8	N	0:30	5.11	5.12	0.12	30	250.0	44.3	44.2	44.2	0.01
10:10	10:40	8.8	N	0:30	5.12	5.13	0.12	30	250.0	44.2	44.0	44.1	0.01
10:40	11:10	8.8	N	0:30	5.13	5.14	0.12	30	250.0	44.0	43.9	44.0	0.01
11:10	11:40	8.8	N	0:30	5.14	5.15	0.12	30	250.0	43.9	43.8	43.9	0.01
11:40	12:10	8.8	N	0:30	5.15	5.16	0.12	30	250.0	43.8	43.7	43.7	0.01
12:10	12:40	8.8	N	0:30	5.16	5.17	0.12	30	250.0	43.7	43.6	43.6	0.01
12:40	13:10	8.8	N	0:30	5.17	5.18	0.12	30	250.0	43.6	43.4	43.5	0.01
Recommended for Design:										**Infiltration Rate**			**0.01**

SALEM engineering group, inc.

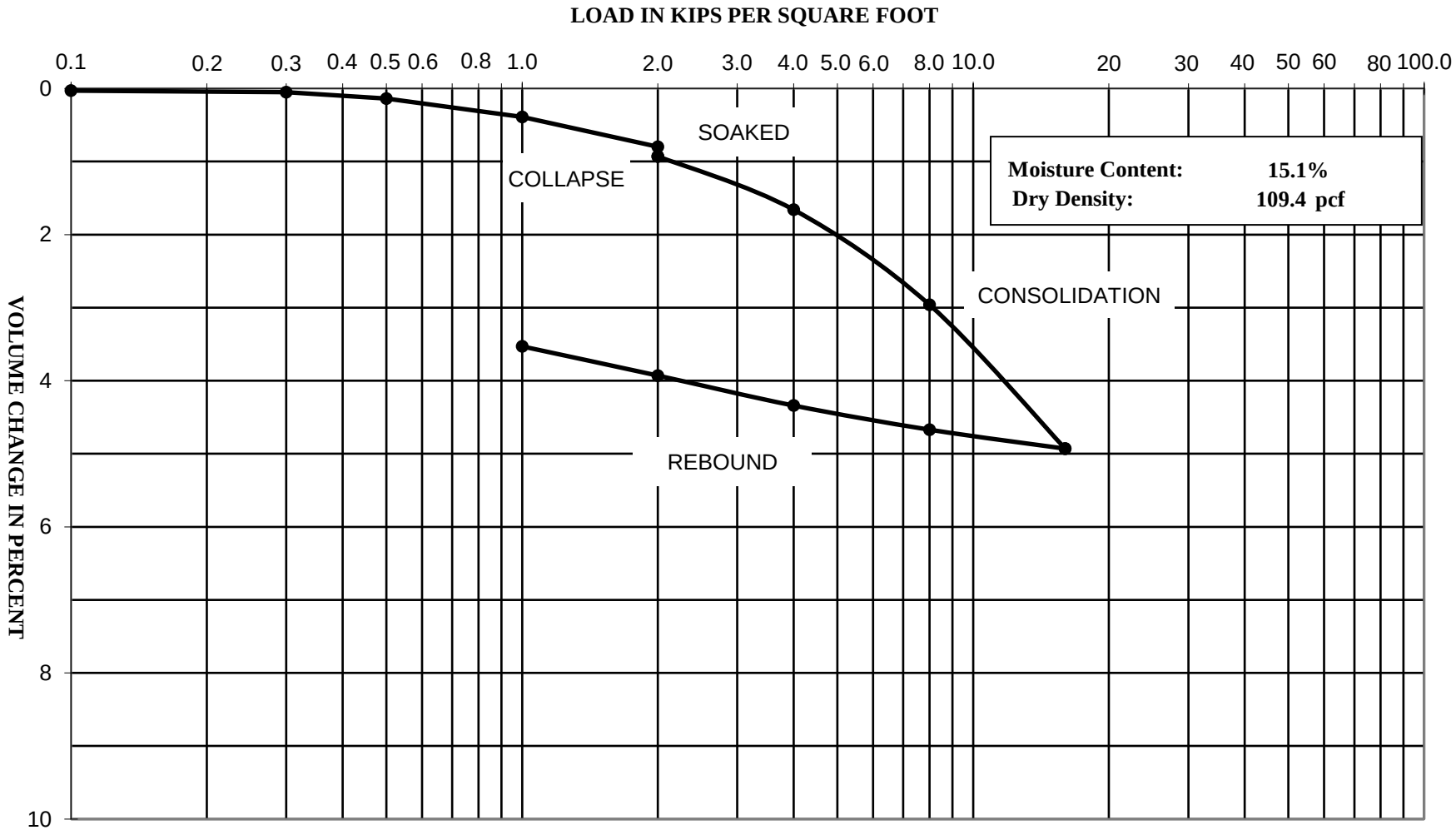
APPENDIX

B

APPENDIX B
LABORATORY TESTING

Laboratory tests were performed in accordance with generally accepted test methods of the American Society for Testing and Materials (ASTM), Caltrans, or other suggested procedures. Selected samples were tested for in-situ dry density and moisture content, corrosivity, consolidation, shear strength, expansion index, maximum density and optimum moisture content, and grain size distribution. The results of the laboratory tests are summarized in the following figures.

CONSOLIDATION - PRESSURE TEST DATA
ASTM D2435



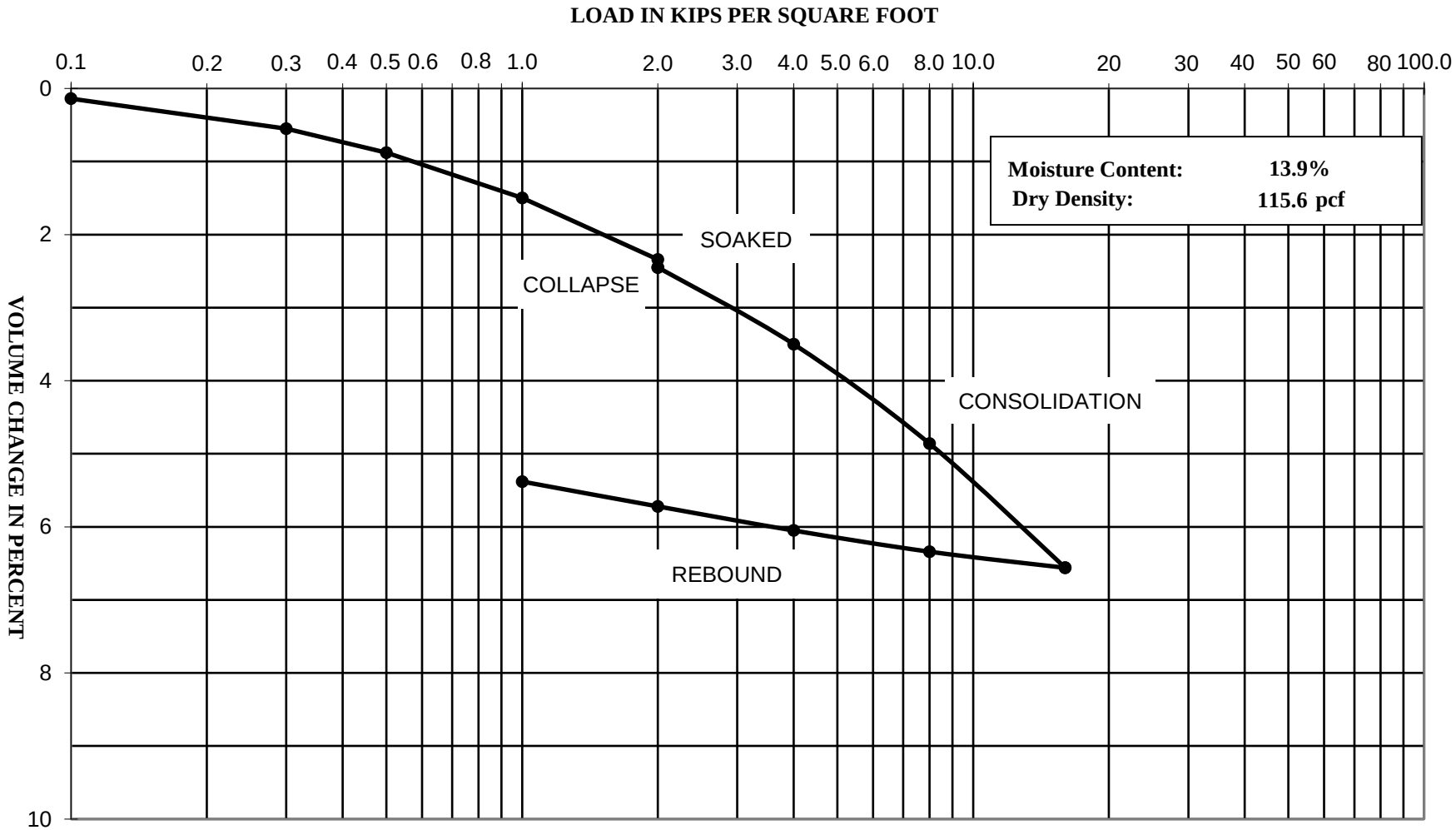
Project Name: Proposed Fueling Station - Calimesa, CA

Project Number: 3-221-0096

Boring: B-1 @ 5'

SALEM engineering group, inc.

CONSOLIDATION - PRESSURE TEST DATA
ASTM D2435



Project Name: Proposed Fueling Station - Calimesa, CA

Project Number: 3-221-0096

Boring: B-2 @ 2'

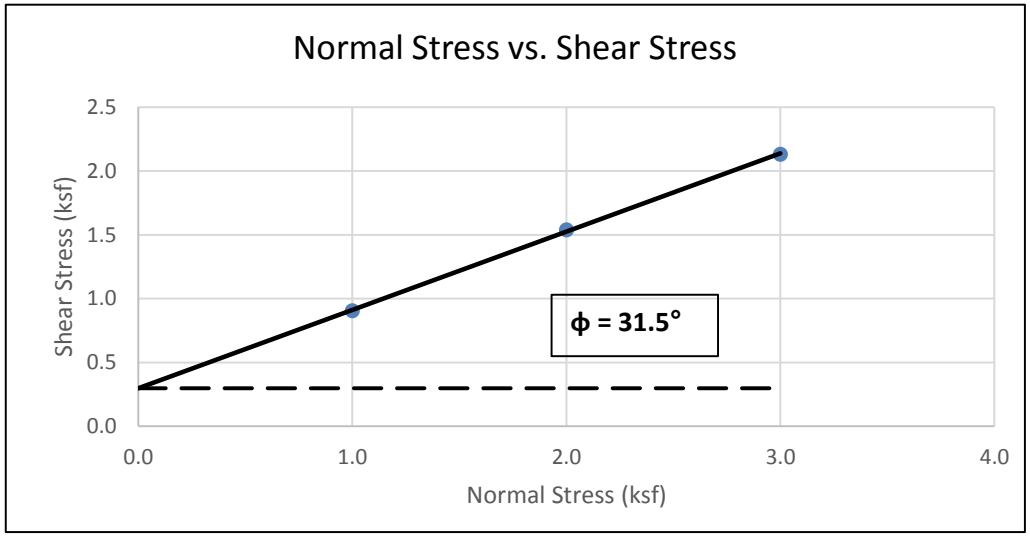
SALEM engineering group, inc.

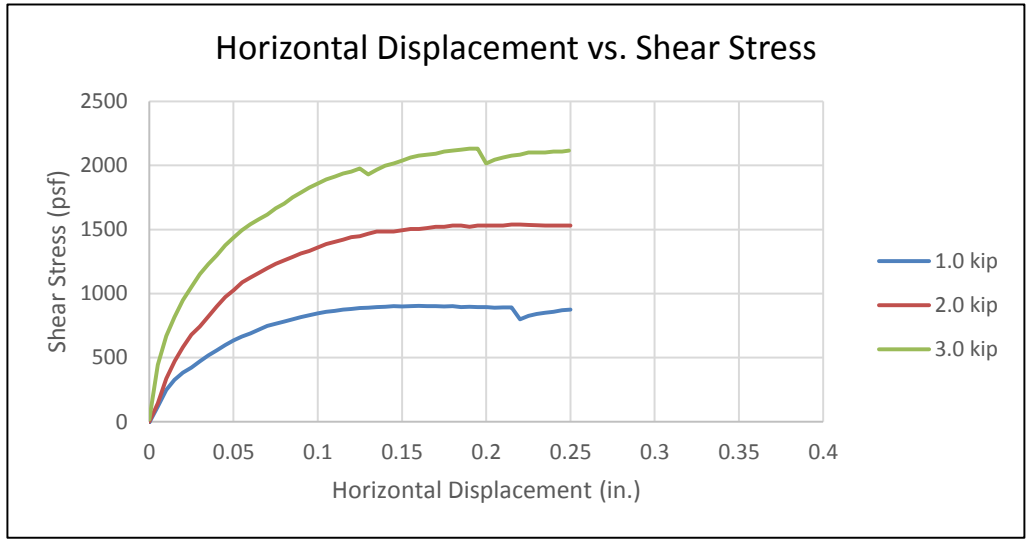
Direct Shear Test (ASTM D3080)

Project Name: Proposed Fueling Station - Calimesa, CA
Project Number: 3-221-0096
Client: J&T Management
Boring: B-1 @ 2'
Soil Type: Sandy SILT (ML)
Sample Type: Undisturbed Ring
Tested By: NL
Reviewed By: CJ
Date of Test: 2/19/2021
Test Equipment: GeoComp ShearTrac II

	Loading		
	1.0 kip	**2.0 kip**	**3.0 kip**
Normal Stress (ksf)	1.00	2.00	3.00
Shear Rate (in/min)	0.0040	0.0040	0.0040
Peak Shear Stress (ksf)	0.90	1.54	2.13

Initial Height of Sample (in)	1.000	1.000	1.000
Post-Consol. Sample Height (in.)	0.873	0.815	0.877
Post-Shear Sample Height (in.)	0.859	0.789	0.858
Diameter of Sample (in)	2.4	2.4	2.4
Initial (pre-shear) Values			
Moisture Content (%)		9.9	
Dry Density (pcf)	119.7	111.6	120.9
Saturation %	67.5	53.7	70.0
Void Ratio	0.39	0.49	0.38
Consolidated Void Ratio	0.22	0.22	0.21
Final (post-shear) Values			
Final Moisture Content (%)	17.9	17.5	17.4
Dry Density (pcf)	130.3	127.8	130.0
Saturation %	169.2	179.7	176.3
Void Ratio	0.28	0.26	0.26





Peak Shear Strength Values	
Slope	0.61
Friction Angle	31.5
Cohesion (psf)	297

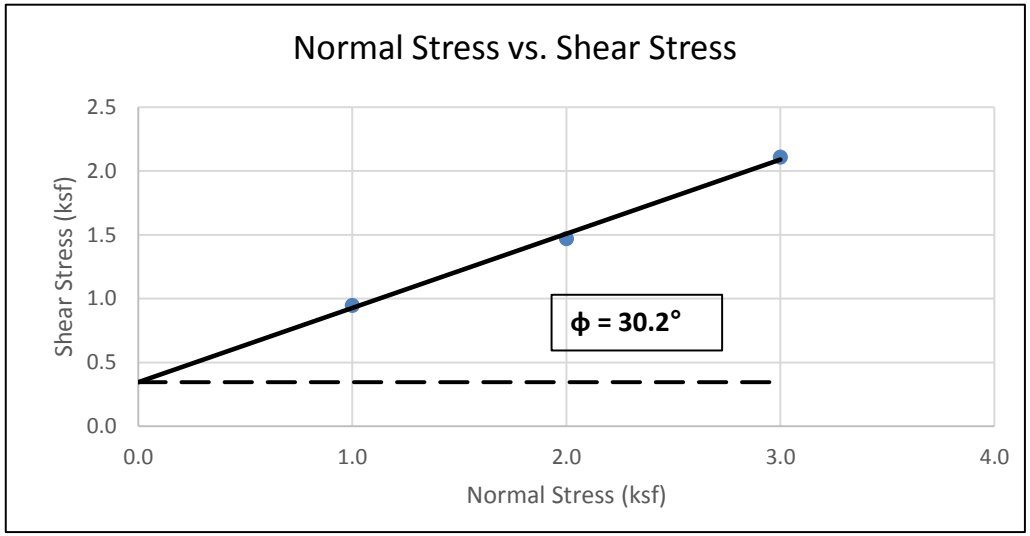
SALEM engineering group, inc.
4729 W. Jacquelyn Ave.
Fresno, CA 93722

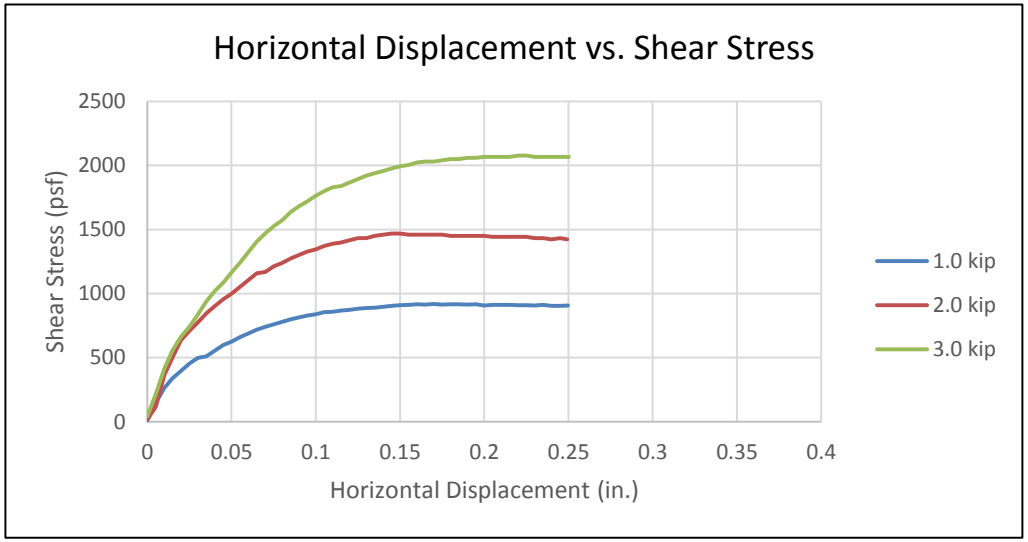
Direct Shear Test (ASTM D3080)

Project Name: Proposed Fueling Station - Calimesa, CA
Project Number: 3-221-0096
Client: J&T Management
Boring: B-4 @ 10'
Soil Type: SILT with Sand (ML)
Sample Type: Undisturbed Ring
Tested By: NL
Reviewed By: CJ
Date of Test: 2/19/2021
Test Equipment: GeoComp ShearTrac II

	Loading		
	1.0 kip	**2.0 kip**	**3.0 kip**
Normal Stress (ksf)	1.00	2.00	3.00
Shear Rate (in/min)	0.0040	0.0040	0.0040
Peak Shear Stress (ksf)	0.95	1.47	2.11

Initial Height of Sample (in)	1.000	1.000	1.000
Post-Consol. Sample Height (in.)	0.871	0.837	0.781
Post-Shear Sample Height (in.)	0.850	0.819	0.757
Diameter of Sample (in)	2.4	2.4	2.4
Initial (pre-shear) Values			
Moisture Content (%)	16.4		
Dry Density (pcf)	117.6	112.0	109.3
Saturation %	102.9	88.3	82.2
Void Ratio	0.43	0.50	0.54
Consolidated Void Ratio	0.24	0.26	0.20
Final (post-shear) Values			
Final Moisture Content (%)	24.9	25.9	25.2
Dry Density (pcf)	128.9	123.0	126.9
Saturation %	221.6	212.5	269.5
Void Ratio	0.30	0.33	0.25



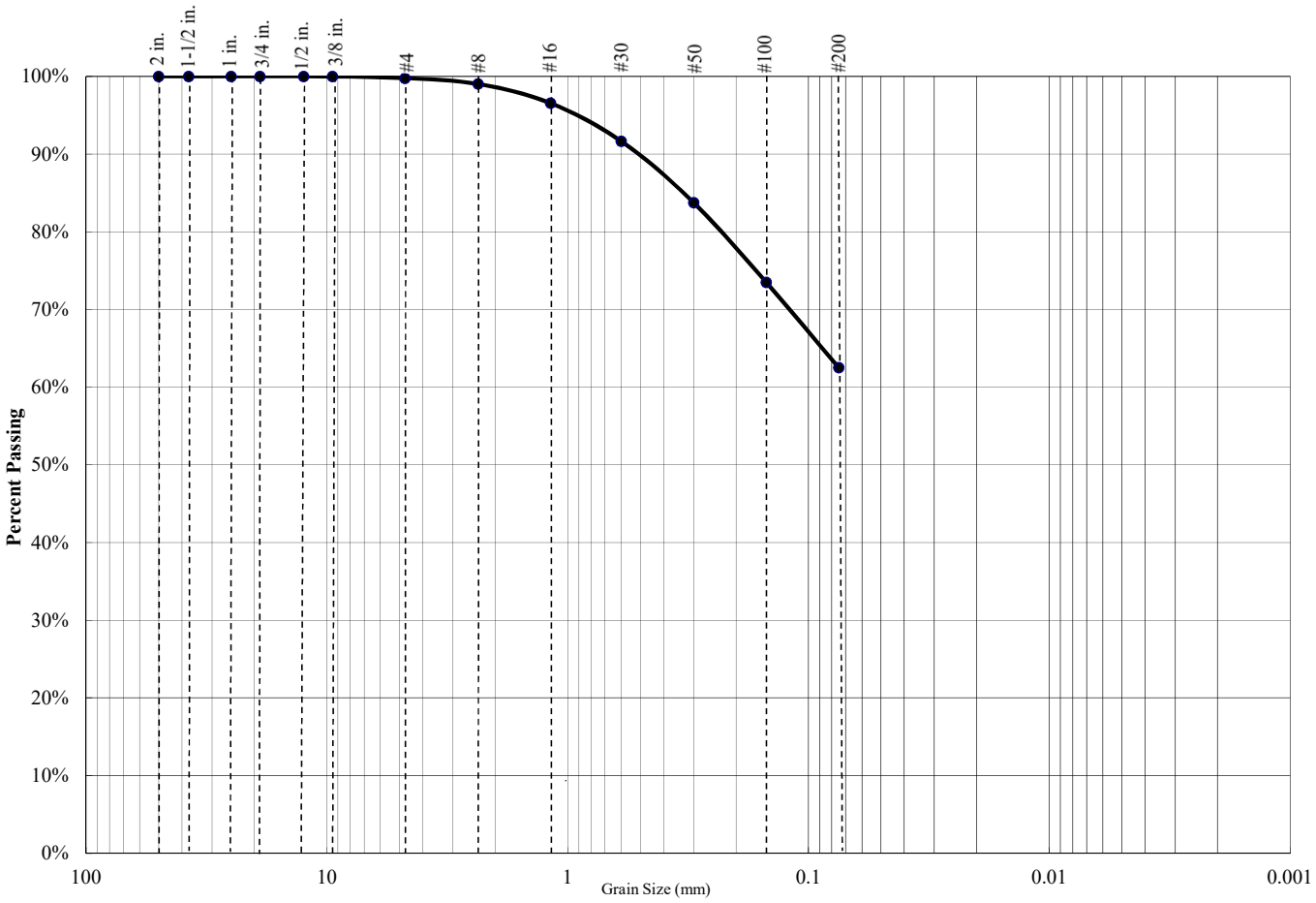


Peak Shear Strength Values	
Slope	0.58
Friction Angle	30.2
Cohesion (psf)	345

SALEM engineering group, inc.
4729 W. Jacquelyn Ave.
Fresno, CA 93722

PARTICLE SIZE DISTRIBUTION DIAGRAM

GRADATION TEST - ASTM C136



Percent Gravel	Percent Sand	Percent Silt/Clay
0%	37%	63%

Sieve Size	Percent Passing
3/4 inch	100.0%
1/2 inch	100.0%
3/8 inch	100.0%
#4	99.8%
#8	99.0%
#16	96.6%
#30	91.7%
#50	83.7%
#100	73.5%
#200	62.5%

Atterberg Limits		
PL=	LL=	PI=

Coefficients					
D_{85}=		D_{60}=		D_{50}=	
D_{30}=		D_{15}=		D_{10}=	
C_u=	N/A	C_c=	N/A		

USCS CLASSIFICATION
Sandy SILT (ML)

Project Name: Proposed Fueling Station - Calimesa, CA

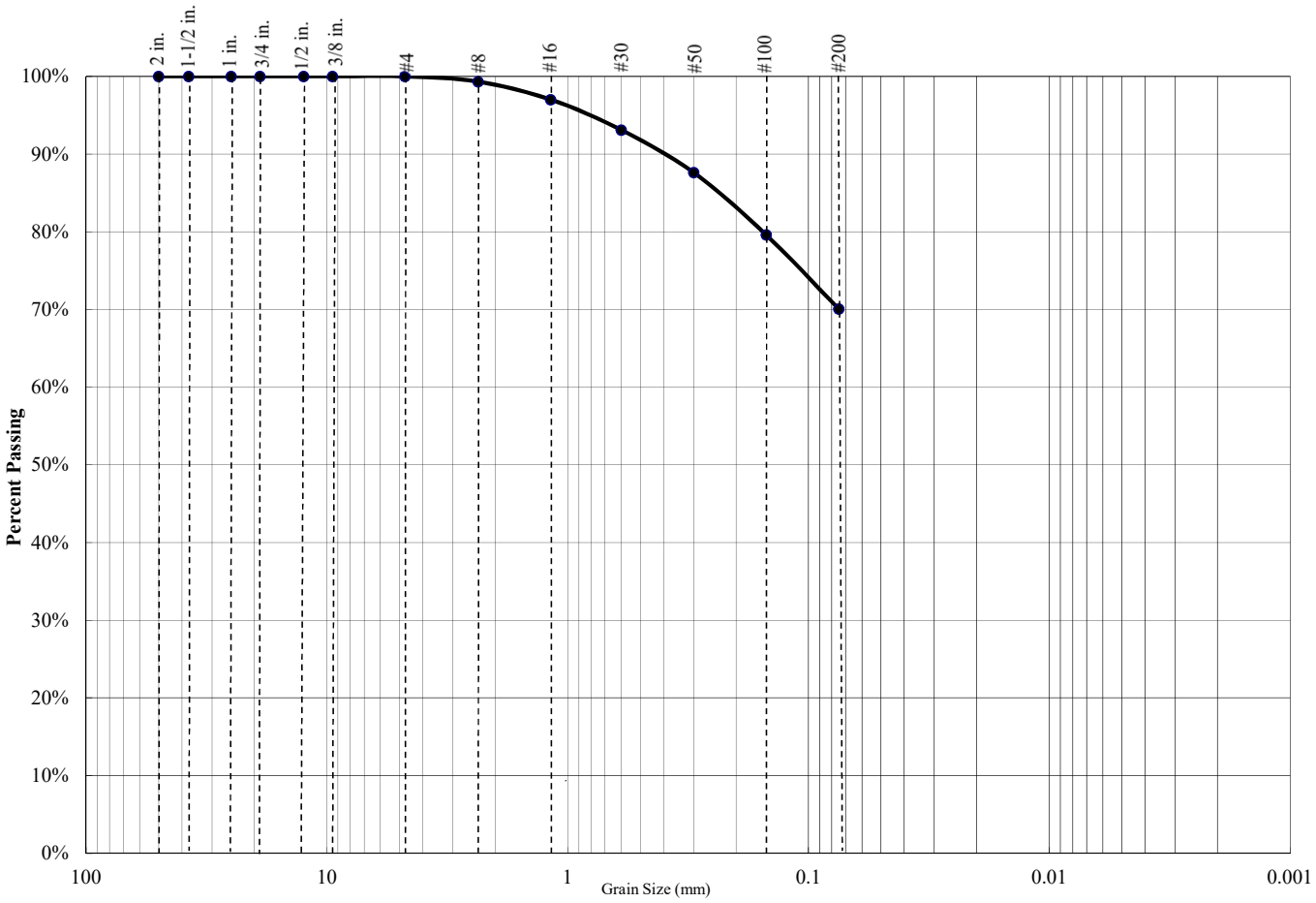
Project Number: 3-221-0096

Boring: B-1 @ 2'

SALEM engineering group, inc.

PARTICLE SIZE DISTRIBUTION DIAGRAM

GRADATION TEST - ASTM C136



Percent Gravel	Percent Sand	Percent Silt/Clay
0%	30%	70%

Sieve Size	Percent Passing
3/4 inch	100.0%
1/2 inch	100.0%
3/8 inch	100.0%
#4	100.0%
#8	99.3%
#16	97.0%
#30	93.1%
#50	87.6%
#100	79.6%
#200	70.1%

Atterberg Limits		
PL=	LL=	PI=

Coefficients			
D_{85}=		D_{60}=	D_{50}=
D_{30}=		D_{15}=	D_{10}=
C_u=	N/A	C_c=	N/A

USCS CLASSIFICATION
CLAY with Sand (CL)

Project Name: Proposed Fueling Station - Calimesa, CA

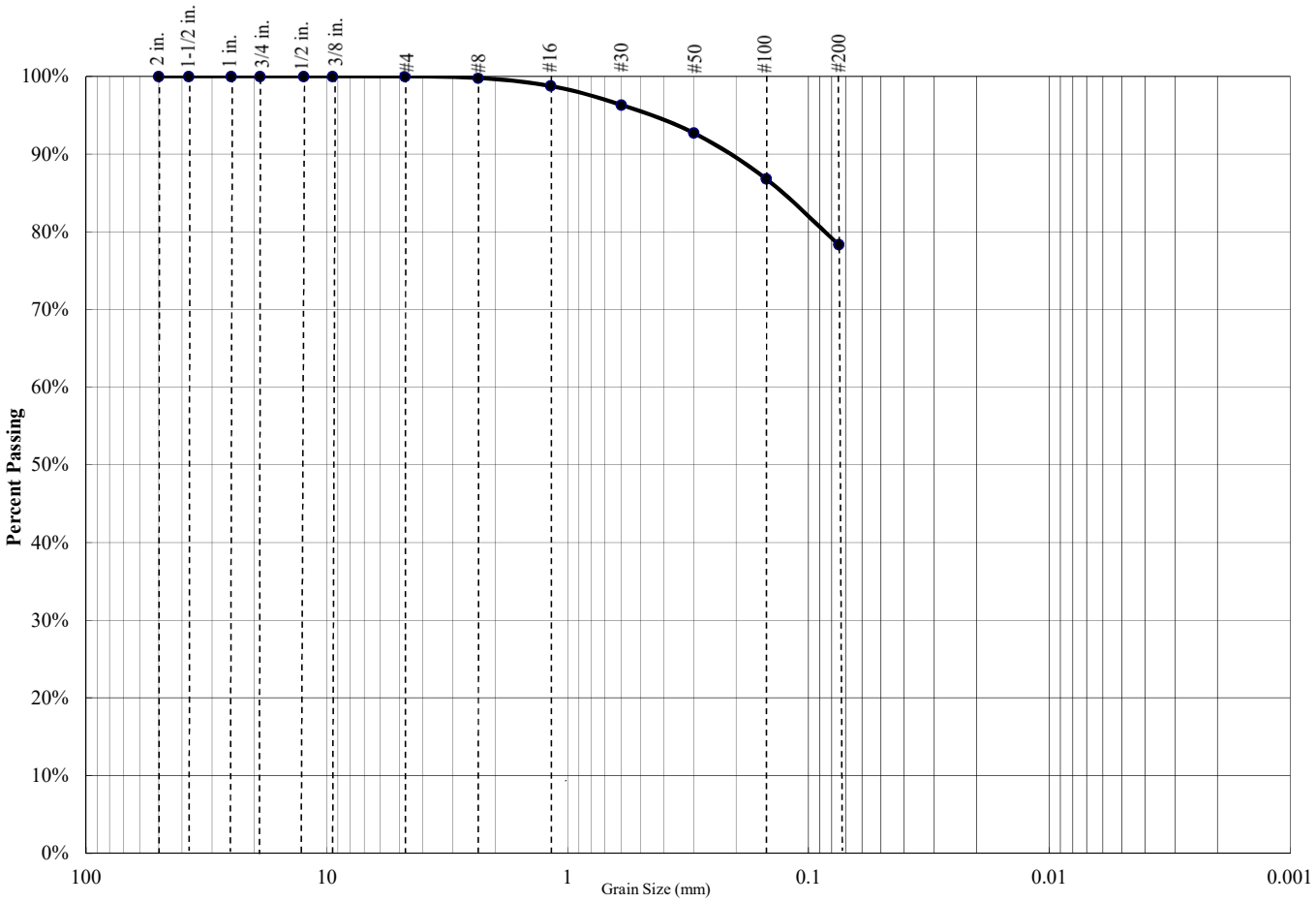
Project Number: 3-221-0096

Boring: B-1 @ 5'

SALEM engineering group, inc.

PARTICLE SIZE DISTRIBUTION DIAGRAM

GRADATION TEST - ASTM C136



Percent Gravel	Percent Sand	Percent Silt/Clay
0%	22%	78%

Sieve Size	Percent Passing
3/4 inch	100.0%
1/2 inch	100.0%
3/8 inch	100.0%
#4	100.0%
#8	99.8%
#16	98.8%
#30	96.3%
#50	92.7%
#100	86.8%
#200	78.3%

Atterberg Limits		
PL=	LL=	PI=

Coefficients					
D_{85}=		D_{60}=		D_{50}=	
D_{30}=		D_{15}=		D_{10}=	
C_u=	N/A	C_c=	N/A		

USCS CLASSIFICATION
Sandy SILT (ML)

Project Name: Proposed Fueling Station - Calimesa, CA

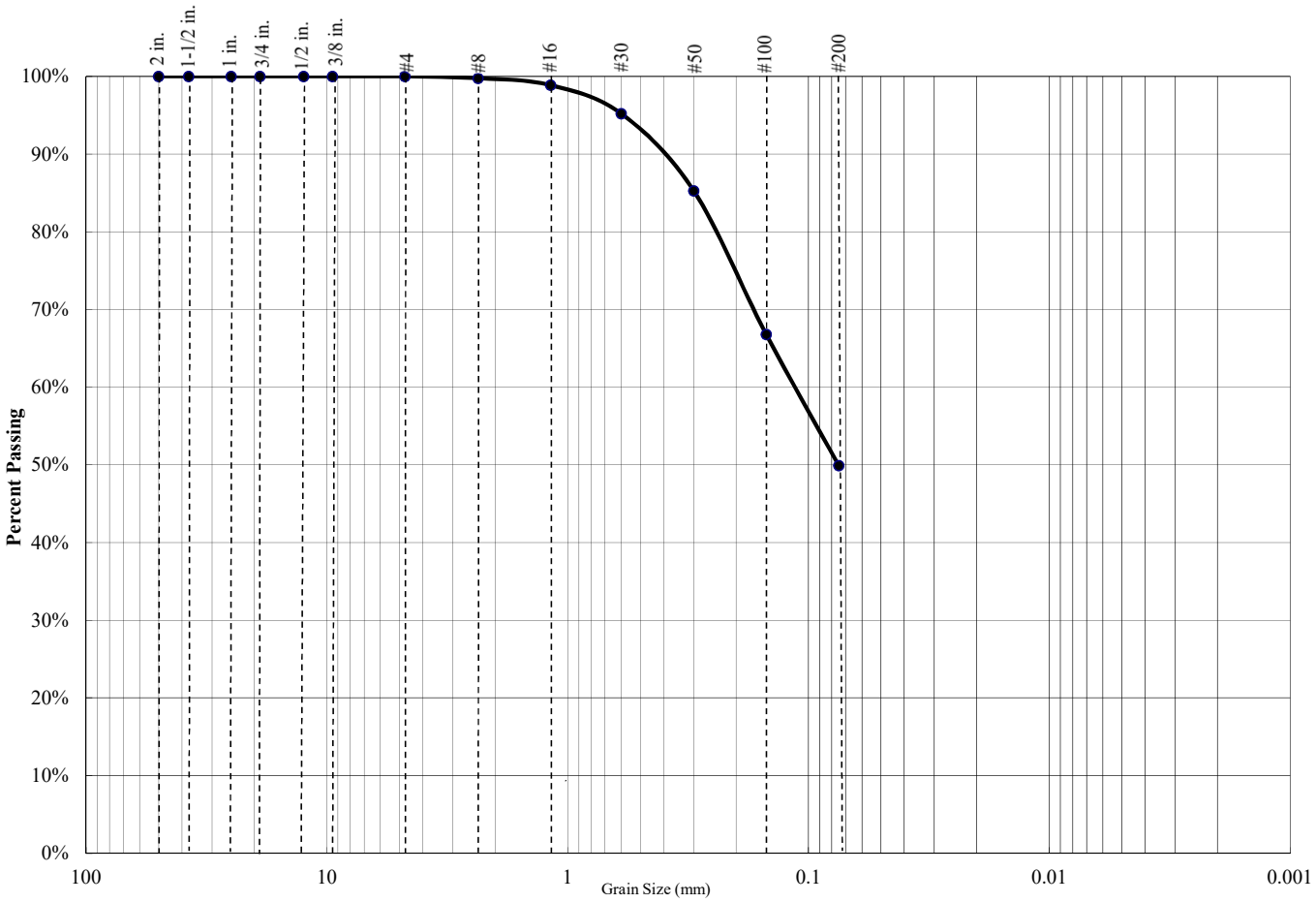
Project Number: 3-221-0096

Boring: B-1 @ 20'

SALEM engineering group, inc.

PARTICLE SIZE DISTRIBUTION DIAGRAM

GRADATION TEST - ASTM C136



Percent Gravel	Percent Sand	Percent Silt/Clay
0%	50%	50%

Sieve Size	Percent Passing
3/4 inch	100.0%
1/2 inch	100.0%
3/8 inch	100.0%
#4	100.0%
#8	99.8%
#16	98.9%
#30	95.2%
#50	85.3%
#100	66.8%
#200	49.9%

Atterberg Limits		
PL=	LL=	PI=

Coefficients					
D_{85}=		D_{60}=		D_{50}=	
D_{30}=		D_{15}=		D_{10}=	
C_u=	N/A	C_c=	N/A		

USCS CLASSIFICATION
Silty SAND/Sandy SILT (SM/ML)

Project Name: Proposed Fueling Station - Calimesa, CA

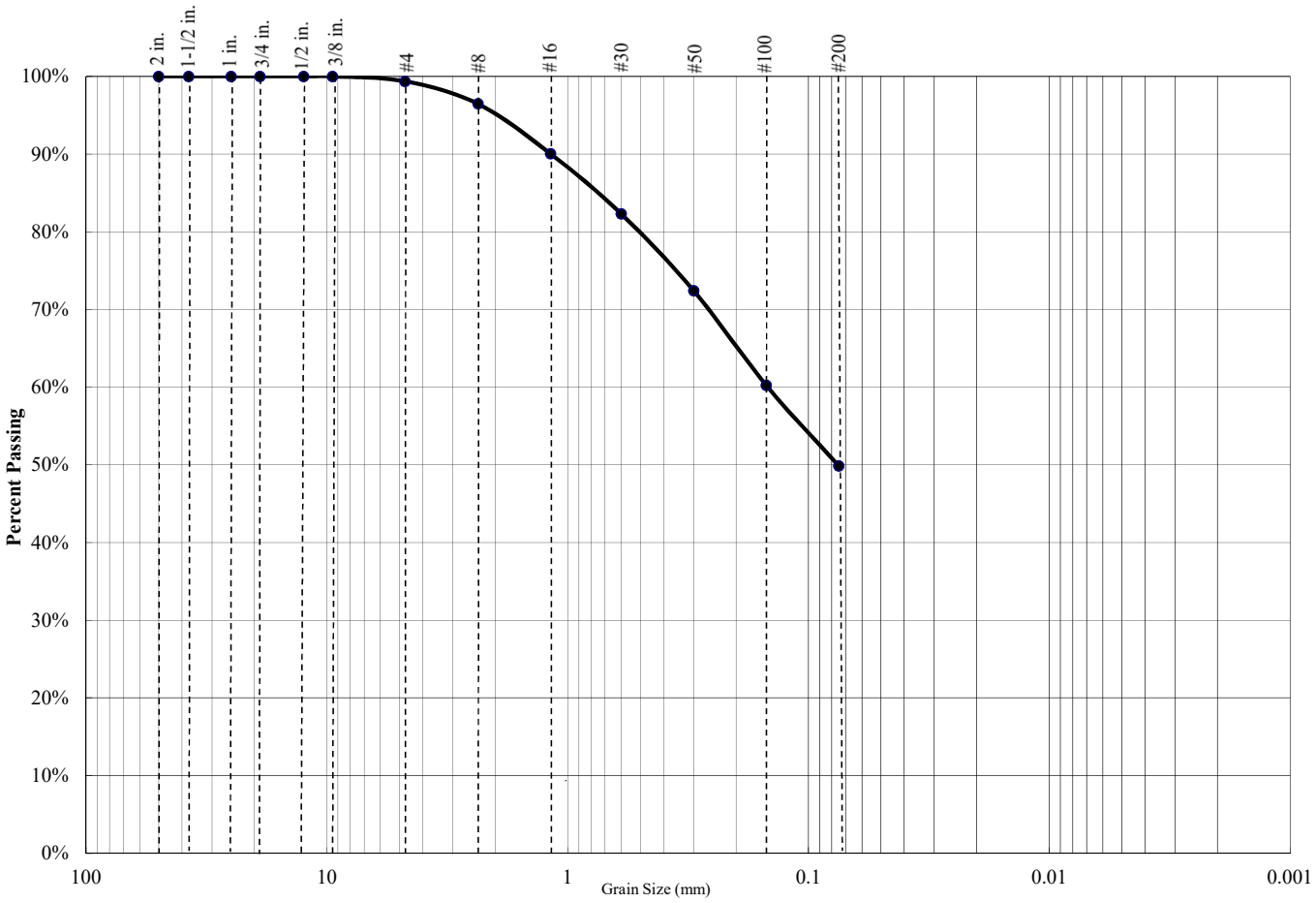
Project Number: 3-221-0096

Boring: B-1 @ 33'

SALEM engineering group, inc.

PARTICLE SIZE DISTRIBUTION DIAGRAM

GRADATION TEST - ASTM C136



Percent Gravel	Percent Sand	Percent Silt/Clay
1%	49%	50%

Sieve Size	Percent Passing
3/4 inch	100.0%
1/2 inch	100.0%
3/8 inch	100.0%
#4	99.4%
#8	96.5%
#16	90.1%
#30	82.3%
#50	72.4%
#100	60.3%
#200	49.9%

Atterberg Limits		
PL=	LL=	PI=

Coefficients			
D_{85}=		D_{60}=	D_{50}=
D_{30}=		D_{15}=	D_{10}=
C_u=	N/A	C_c=	N/A

USCS CLASSIFICATION
Silty SAND/Sandy SILT (SM/ML)

Project Name: Proposed Fueling Station - Calimesa, CA

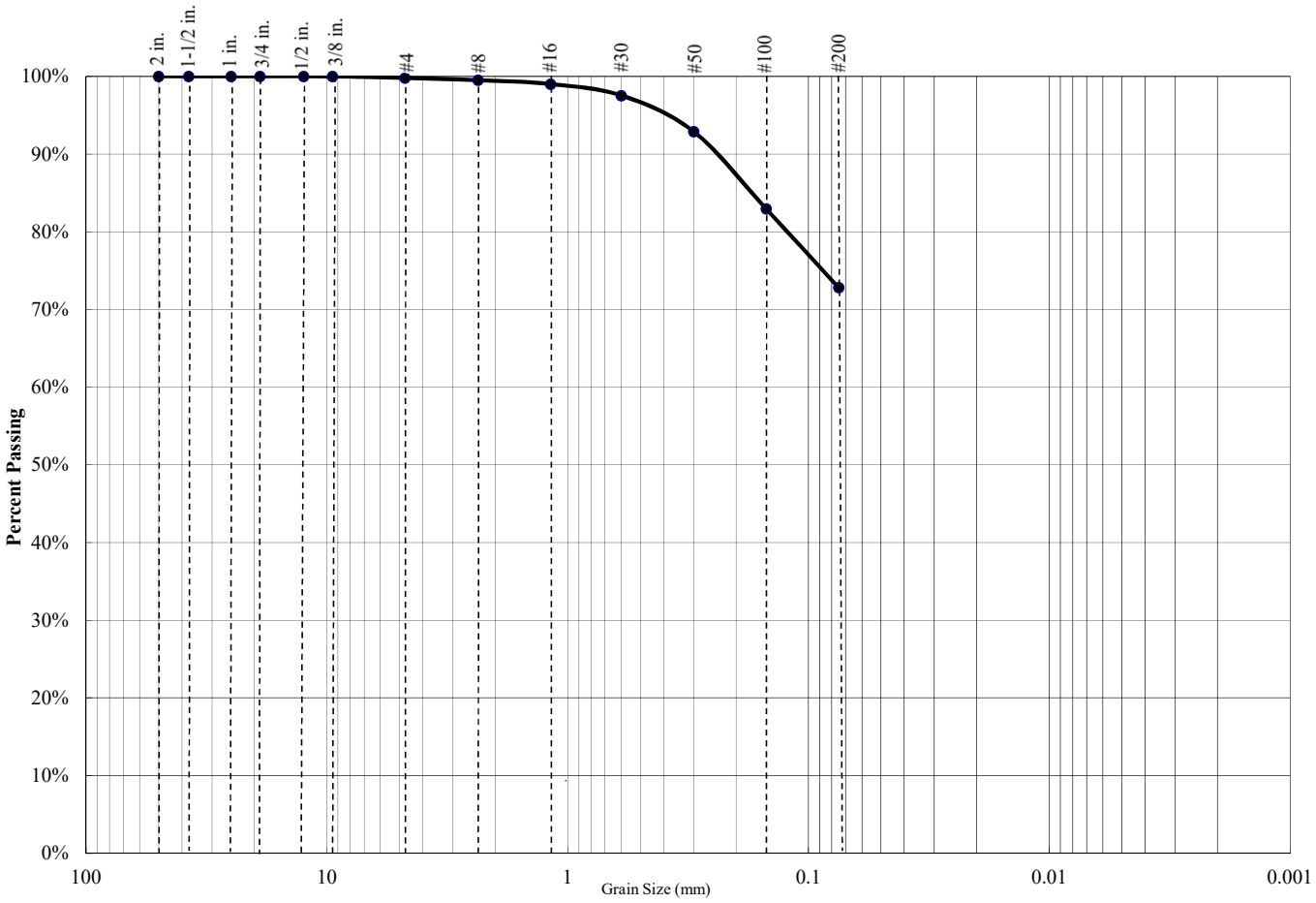
Project Number: 3-221-0096

Boring: B-2 @ 2'

SALEM engineering group, inc.

PARTICLE SIZE DISTRIBUTION DIAGRAM

GRADATION TEST - ASTM C136



Percent Gravel	Percent Sand	Percent Silt/Clay
0%	27%	73%

Sieve Size	Percent Passing
3/4 inch	100.0%
1/2 inch	100.0%
3/8 inch	100.0%
#4	99.8%
#8	99.5%
#16	99.0%
#30	97.5%
#50	92.9%
#100	83.0%
#200	72.8%

Atterberg Limits		
PL=	LL=	PI=

Coefficients					
D_{85}=		D_{60}=		D_{50}=	
D_{30}=		D_{15}=		D_{10}=	
C_u=	N/A	C_c=	N/A		

USCS CLASSIFICATION
CLAY with Sand (CL)

Project Name: Proposed Fueling Station - Calimesa, CA

Project Number: 3-221-0096

Boring: B-4 @ 10'

SALEM engineering group, inc.

EXPANSION INDEX TEST
ASTM D4829

Project Name: Proposed Fueling Station - Calimesa, CA
Project Number: 3-221-0096
Date Sampled: 2/9/2021 & 2/10/2021 Date Tested: 2/15/2021
Sampled By: SEG Tested By: KN / IM
Sample Location: B-1 @ 0'-3'
Soil Description: Sandy SILT (ML) w/ Clay

Trial #	1	2	3
Weight of Soil & Mold, g.	591.2		
Weight of Mold, g.	187.8		
Weight of Soil, g.	403.4		
Wet Density, pcf	121.7		
Weight of Moisture Sample (Wet), g.	806.0		
Weight of Moisture Sample (Dry), g.	736.1		
Moisture Content, %	9.5		
Dry Density, pcf	111.1		
Specific Gravity of Soil	2.7		
Degree of Saturation, %	49.7		

Time	Inital	30 min	1 hr	6 hrs	12 hrs	24 hrs
Dial Reading	0	0.0264	0.0273	--	--	0.0287

Expansion Index $_{measured}$ = 28.7
Expansion Index $_{50}$ = 28.5

Expansion Index = **29**

Expansion Potential Table	
Exp. Index	Potential Exp.
0 - 20	Very Low
21 - 50	Low
51 - 90	Medium
91 - 130	High
>130	Very High

SALEM engineering group, inc.

CHEMICAL ANALYSIS

SO_4 - Modified CTM 417 & Cl - Modified CTM 417/422

Project Name: Proposed Fueling Station - Calimesa, CA
Project Number: 3-221-0096
Date Sampled: 2/9/2021 & 2/10/2021 Date Tested: 2/15/2021
Sampled By: SEG Tested By: NS
Soil Description: Sandy SILT (ML) w/ Clay

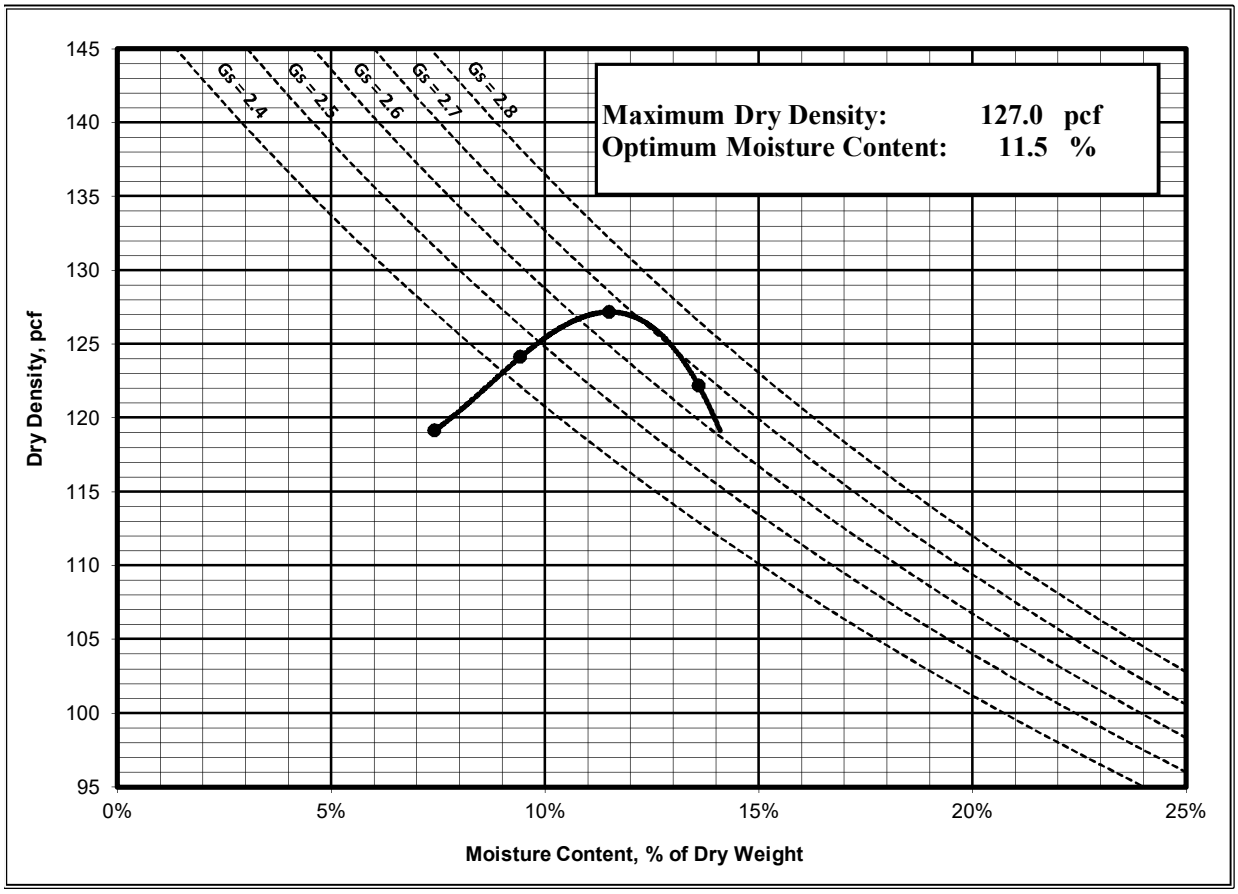
Sample Number	Sample Location	Soluble Sulfate SO_4-S	Soluble Chloride Cl	pH
1a.	B-1 @ 0'-3'	260 mg/kg	44 mg/kg	7.2
1b.	B-1 @ 0'-3'	260 mg/kg	44 mg/kg	7.2
1c.	B-1 @ 0'-3'	250 mg/kg	43 mg/kg	7.2
Average:		**257 mg/kg**	**44 mg/kg**	**7.2**

SALEM
engineering group, inc.

Laboratory Compaction Curve
ASTM D1557

Project Name: Proposed Fueling Station - Calimesa, CA
Project Number: 3-221-0096
Date Sampled: 2/9/2021 & 2/10/2021 Date Tested: 2/16/2021
Sampled By: SEG Tested By: AT
Sample Location: B-1 @ 0'-3'
Soil Description: Sandy SILT (ML) w/ Clay
Test Method: Method A

	1	2	3	4
Weight of Moist Specimen & Mold, (g)	3928.1	4046.0	4136.7	4091.4
Weight of Compaction Mold, (g)	1992.9	1992.9	1992.9	1992.9
Weight of Moist Specimen, (g)	1935.2	2053.1	2143.8	2098.5
Volume of Mold, (ft^3)	0.0333	0.0333	0.0333	0.0333
Wet Density, (pcf)	128.0	135.8	141.8	138.8
Weight of Wet (Moisture) Sample, (g)	325.5	327.5	325.5	327.5
Weight of Dry (Moisture) Sample, (g)	303.0	299.3	291.9	288.3
Moisture Content, (%)	7.4%	9.4%	11.5%	13.6%
Dry Density, (pcf)	119.1	124.1	127.2	122.2



SALEM engineering group, inc.

APPENDIX

C

APPENDIX C
GENERAL EARTHWORK AND PAVEMENT SPECIFICATIONS

When the text of the report conflicts with the general specifications in this appendix, the recommendations in the report have precedence.

1.0 SCOPE OF WORK: These specifications and applicable plans pertain to and include all earthwork associated with the site rough grading, including, but not limited to, the furnishing of all labor, tools and equipment necessary for site clearing and grubbing, stripping, preparation of foundation materials for receiving fill, excavation, processing, placement and compaction of fill and backfill materials to the lines and grades shown on the project grading plans and disposal of excess materials.

2.0 PERFORMANCE: The Contractor shall be responsible for the satisfactory completion of all earthwork in accordance with the project plans and specifications. This work shall be inspected and tested by a representative of SALEM Engineering Group, Incorporated, hereinafter referred to as the Soils Engineer and/or Testing Agency. Attainment of design grades, when achieved, shall be certified by the project Civil Engineer. Both the Soils Engineer and the Civil Engineer are the Owner's representatives. If the Contractor should fail to meet the technical or design requirements embodied in this document and on the applicable plans, he shall make the necessary adjustments until all work is deemed satisfactory as determined by both the Soils Engineer and the Civil Engineer. No deviation from these specifications shall be made except upon written approval of the Soils Engineer, Civil Engineer, or project Architect.

No earthwork shall be performed without the physical presence or approval of the Soils Engineer. The Contractor shall notify the Soils Engineer at least 2 working days prior to the commencement of any aspect of the site earthwork.

The Contractor shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the Contractor shall defend, indemnify and hold the Owner and the Engineers harmless from any and all liability, real or alleged, in connection with the performance of work on this project, except for liability arising from the sole negligence of the Owner or the Engineers.

3.0 TECHNICAL REQUIREMENTS: All compacted materials shall be densified to no less that 95 percent of relative compaction (90 percent for fine grained, cohesive soils) based on ASTM D1557 Test Method (latest edition), UBC or CAL-216, or as specified in the technical portion of the Soil Engineer's report. The location and frequency of field density tests shall be determined by the Soils Engineer. The results of these tests and compliance with these specifications shall be the basis upon which satisfactory completion of work will be judged by the Soils Engineer.

4.0 SOILS AND FOUNDATION CONDITIONS: The Contractor is presumed to have visited the site and to have familiarized himself with existing site conditions and the contents of the data presented in the Geotechnical Engineering Report. The Contractor shall make his own interpretation of the data contained in the Geotechnical Engineering Report and the Contractor shall not be relieved of liability for any loss sustained as a result of any variance between conditions indicated by or deduced from said report and the actual conditions encountered during the progress of the work.

5.0 DUST CONTROL: The work includes dust control as required for the alleviation or prevention of any dust nuisance on or about the site or the borrow area, or off-site if caused by the Contractor's operation either during the performance of the earthwork or resulting from the conditions in which the Contractor leaves the site. The Contractor shall assume all liability, including court costs of codefendants, for all claims related to dust or wind-blown materials attributable to his work. Site preparation shall consist of site clearing and grubbing and preparation of foundation materials for receiving fill.

6.0 CLEARING AND GRUBBING: The Contractor shall accept the site in this present condition and shall demolish and/or remove from the area of designated project earthwork all structures, both surface and subsurface, trees, brush, roots, debris, organic matter and all other matter determined by the Soils Engineer to be deleterious. Such materials shall become the property of the Contractor and shall be removed from the site.

Tree root systems in proposed improvement areas should be removed to a minimum depth of 3 feet and to such an extent which would permit removal of all roots greater than 1 inch in diameter. Tree roots removed in parking areas may be limited to the upper 1½ feet of the ground surface. Backfill of tree root excavations is not permitted until all exposed surfaces have been inspected and the Soils Engineer is present for the proper control of backfill placement and compaction. Burning in areas which are to receive fill materials shall not be permitted.

7.0 SUBGRADE PREPARATION: Surfaces to receive Engineered Fill and/or building or slab loads shall be prepared as outlined above, scarified to a minimum of 12 inches, moisture-conditioned as necessary, and recompacted to 95 percent relative compaction (90 percent for cohesive soils).

Loose soil areas and/or areas of disturbed soil shall be moisture-conditioned as necessary and recompacted to 95 percent relative compaction (90 percent for cohesive soils). All ruts, hummocks, or other uneven surface features shall be removed by surface grading prior to placement of any fill materials. All areas which are to receive fill materials shall be approved by the Soils Engineer prior to the placement of any fill material.

8.0 EXCAVATION: All excavation shall be accomplished to the tolerance normally defined by the Civil Engineer as shown on the project grading plans. All over-excavation below the grades specified shall be backfilled at the Contractor's expense and shall be compacted in accordance with the applicable technical requirements.

9.0 FILL AND BACKFILL MATERIAL: No material shall be moved or compacted without the presence or approval of the Soils Engineer. Material from the required site excavation may be utilized for construction site fills, provided prior approval is given by the Soils Engineer. All materials utilized for constructing site fills shall be free from vegetation or other deleterious matter as determined by the Soils Engineer.

10.0 PLACEMENT, SPREADING AND COMPACTION: The placement and spreading of approved fill materials and the processing and compaction of approved fill and native materials shall be the responsibility of the Contractor. Compaction of fill materials by flooding, ponding, or jetting shall not be permitted unless specifically approved by local code, as well as the Soils Engineer. Both cut and fill shall be surface-compacted to the satisfaction of the Soils Engineer prior to final acceptance.

11.0 SEASONAL LIMITS: No fill material shall be placed, spread, or rolled while it is frozen or thawing, or during unfavorable wet weather conditions. When the work is interrupted by heavy rains, fill operations shall not be resumed until the Soils Engineer indicates that the moisture content and density of previously placed fill is as specified.

12.0 DEFINITIONS - The term "pavement" shall include asphaltic concrete surfacing, untreated aggregate base, and aggregate subbase. The term "subgrade" is that portion of the area on which surfacing, base, or subbase is to be placed.

The term "Standard Specifications": hereinafter referred to, is the most recent edition of the Standard Specifications of the State of California, Department of Transportation. The term "relative compaction" refers to the field density expressed as a percentage of the maximum laboratory density as determined by ASTM D1557 Test Method (latest edition) or California Test Method 216 (CAL-216), as applicable.

13.0 PREPARATION OF THE SUBGRADE - The Contractor shall prepare the surface of the various subgrades receiving subsequent pavement courses to the lines, grades, and dimensions given on the plans. The upper 12 inches of the soil subgrade beneath the pavement section shall be compacted to a minimum relative compaction of 95 percent based upon ASTM D1557. The finished subgrades shall be tested and approved by the Soils Engineer prior to the placement of additional pavement courses.

14.0 AGGREGATE BASE - The aggregate base material shall be spread and compacted on the prepared subgrade in conformity with the lines, grades, and dimensions shown on the plans. The aggregate base material shall conform to the requirements of Section 26 of the Standard Specifications for Class II material, ¾-inch or 1½-inches maximum size. The aggregate base material shall be compacted to a minimum relative compaction of 95 percent based upon CAL-216. The aggregate base material shall be spread in layers not exceeding 6 inches and each layer of aggregate material course shall be tested and approved by the Soils Engineer prior to the placement of successive layers.

15.0 AGGREGATE SUBBASE - The aggregate subbase shall be spread and compacted on the prepared subgrade in conformity with the lines, grades, and dimensions shown on the plans. The aggregate subbase material shall conform to the requirements of Section 25 of the Standard Specifications for Class II Subbase material. The aggregate subbase material shall be compacted to a minimum relative compaction of 95 percent based upon CAL-216, and it shall be spread and compacted in accordance with the Standard Specifications. Each layer of aggregate subbase shall be tested and approved by the Soils Engineer prior to the placement of successive layers.

16.0 ASPHALTIC CONCRETE SURFACING - Asphaltic concrete surfacing shall consist of a mixture of mineral aggregate and paving grade asphalt, mixed at a central mixing plant and spread and compacted on a prepared base in conformity with the lines, grades, and dimensions shown on the plans. The viscosity grade of the asphalt shall be PG 64-10, unless otherwise stipulated or local conditions warrant more stringent grade. The mineral aggregate shall be Type A or B, ½ inch maximum size, medium grading, and shall conform to the requirements set forth in Section 39 of the Standard Specifications. The drying, proportioning, and mixing of the materials shall conform to Section 39. The prime coat, spreading and compacting equipment, and spreading and compacting the mixture shall conform to the applicable chapters of Section 39, with the exception that no surface course shall be placed when the atmospheric temperature is below 50 degrees F. The surfacing shall be rolled with a combination steel-wheel and pneumatic rollers, as described in the Standard Specifications. The surface course shall be placed with an approved self-propelled mechanical spreading and finishing machine.

Appendix E

Paleontological Resources Records Search

Natural History Museum
of Los Angeles County
900 Exposition Boulevard
Los Angeles, CA 90007

tel 213.763.DINO
www.nhm.org

Research & Collections

e-mail: paleorecords@nhm.org

July 16, 2021

Dudek

Attn: Sarah Siren

re: Paleontological resources for the Calimesa Sandalwood Travel Center Project

Dear Sarah:

I have conducted a thorough search of our paleontology collection records for the locality and specimen data for proposed development at the Calimesa Sandalwood Travel Center project area as outlined on the portion of the El Casco USGS topographic quadrangle map that you sent to me via e-mail on July 9, 2021. We do not have any fossil localities that lie directly within the proposed project area, but we do have fossil localities nearby from the same sedimentary deposits that occur in the proposed project area, either at the surface or at depth.

The following table shows the closest known localities in the collection of the Natural History Museum of Los Angeles County.

Locality Number	Location	Formation	Taxa	Depth
LACM VP 7618-7622	San Timoteo Badlands; E of Moreno & NW of Eden Hot Springs	San Timoteo Formation	Horse family (Equidae); Camel family (Camelidae)	Unknown
LACM VP 1715, 1107*	San Jacinto River; about 9 mi E of Hemet	Unknown formation (Pleistocene)	Horse (*Equus bautistensis*); other unspecified vertebrates	Unknown
LACM VP 4540	junction of Jackrabbit Trail & Gilman Springs Road	Unnamed Formation (Pleistocene, gravel pit)	Horse Family (Equidae)	Unknown
LACM VP 1269	Near intersection of Varner Road and Edom Hill Road; west end of Indio Hills	Unknown formation (Pleistocene)	Horse (*Equus*)	Unknown
LACM VP 1653, LACM IP 437	Saboba Indian Reservation; five miles east of San Jacint0	Unknown Formation (Pleistocene)	Monkfish (*Squatina*), Stickleback (*Gasterosteus*); Invertebrates – insect (*Sobobapteron kirkbaye*), brachiopod (*Terebratalia*	Unknown

			hemphili)	
VIP CIT 579	Palm Canyon, NE of Edom, Riverside Co.	Unknown formation (Pleistocene)	Bison (*Bison*)	Unknown

VP, Vertebrate Paleontology; IP, Invertebrate Paleontology; bgs, below ground surface
**as published in Frick; 1921; U.C. Publ. Geol. Sci. vol. 12; no. 5.*

This records search covers only the records of the Natural History Museum of Los Angeles County ("NHMLA"). It is not intended as a paleontological assessment of the project area for the purposes of CEQA or NEPA. Potentially fossil-bearing units are present in the project area, either at the surface or in the subsurface. As such, NHMLA recommends that a full paleontological assessment of the project area be conducted by a paleontologist meeting Bureau of Land Management or Society of Vertebrate Paleontology standards.

Sincerely,



Alyssa Bell, Ph.D.
Natural History Museum of Los Angeles County

enclosure: invoice

Appendix F

Phase I Environmental Site Assessment

PARTNER
Engineering and Science, Inc.®



PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT

APNs: 411-210-024 and 411-210-006
Calimesa, California 92320

Report Date: February 9, 2021
Partner Project No. 21-306420.2



Prepared for:

Golden State Bank
870 North Mountain Avenue
Upland, California 91786

PARTNER
Engineering and Science, Inc.

February 9, 2021

Mandi Flores
Golden State Bank
870 North Mountain Avenue
Upland, California 91786

Subject: Phase I Environmental Site Assessment
APNs: 411-210-024 and 411-210-006
Calimesa, California 92320
Partner Project No. 21-306420.2

Dear Mandi Flores:

Partner Engineering and Science, Inc. (Partner) is pleased to provide the results of the *Phase I Environmental Site Assessment* (Phase I ESA) report of the abovementioned address (the "subject property"). This assessment was performed in conformance with the scope and limitations as detailed in the ASTM Practice E1527-13 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.

This assessment included a site reconnaissance as well as research and interviews with representatives of the public, property ownership, site manager, and regulatory agencies. An assessment was made, conclusions stated, and recommendations outlined.

We appreciate the opportunity to provide environmental services to you. If you have any questions concerning this report, or if we can assist you in any other matter, please contact me at (310) 615-4500.

Sincerely,

Jenny Redlin
Relationship Manager

EXECUTIVE SUMMARY

Partner Engineering and Science, Inc. (Partner) has performed a Phase I Environmental Site Assessment (ESA) in accordance with the scope of work and limitations of ASTM Standard Practice E1527-13, the Environmental Protection Agency Standards and Practices for All Appropriate Inquiries (AAI) (40 CFR Part 312) and set forth by Golden State Bank for the property located at APNs: 411-210-024 and 411-210-006 in Calimesa, Riverside County, California (the "subject property"). The Phase I Environmental Site Assessment is designed to provide Golden State Bank with an assessment concerning environmental conditions (limited to those issues identified in the report) as they exist at the subject property.

Property Description

The subject property is located east of 7th Street and west of Interstate 10, approximately 400 feet north of Sandalwood Drive within a mixed commercial and residential area of Riverside County. Please refer to the table below for further description of the subject property:

Subject Property Data	
Address(es):	APN: 411-210-024 and 411-210-006, Calimesa, California
Property Use:	Undeveloped land
Land Acreage (Ac):	9.56 Ac
Number of Buildings:	N/A
Assessor's Parcel Number (APN):	411-210-024 and 411-210-006
Site Assessment Performed By:	Tatjana McCondichie of Partner
Site Assessment Conducted On:	January 29, 2021

The subject property currently consists of 9.56-acres of undeveloped land. No onsite operations are currently conducted at the subject property.

According to available historical sources, the subject property has been undeveloped and/or agricultural land since at least 1938.

The immediately surrounding properties consist of rural residences to the north; a Jack in the Box Restaurant to the south; commercial development to the east across Interstate 10; and vacant land and a mobile home park to the west across 7th Street.

According to the Regional Water Quality Control Board (RWQCB), the depth to groundwater in the vicinity of the subject property is inferred to be at over 250 feet below ground surface (bgs) and groundwater flow is inferred to be toward the south.

Findings

A *recognized environmental condition (REC)* refers to the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: due to release to the environment; under conditions indicative of a release to the environment; or under conditions that pose a material threat of a future release to the environment. The following was identified during the course of this assessment:

- Partner did not identify any RECs during the course of this assessment.

A *controlled recognized environmental condition (CREC)* refers to a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls. The following was identified during the course of this assessment:

- Partner did not identify any CRECs during the course of this assessment.

A *historical recognized environmental condition (HREC)* refers to a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls. The following was identified during the course of this assessment:

- Partner did not identify any HRECs during the course of this assessment.

An *environmental issue* refers to environmental concerns identified by Partner, which do not qualify as RECs; however, warrant further discussion. The following was identified during the course of this assessment:

- The subject property was historically used for agricultural purposes. There is a potential that agricultural related chemicals such as pesticides, herbicides, and fertilizers, may have been used and stored onsite. During future site development activities, near surface soils (where residual agricultural chemical concentrations would have most likely been present, if at all) will generally be mixed with fill material or disturbed during grading. Also, it is common that engineered fill material is placed over underlying soils as part of the development activities. Furthermore, it is likely that residual agricultural chemicals (if any) would have likely degraded since the site was last utilized for agricultural purposes. These additional variables serve to further reduce the potential for exposure to residual agricultural chemicals (if any). Based on these reasons, Partner concludes that the possible former use of agricultural chemicals is not expected to represent a significant environmental concern at this time; however, if the subject property is planned for residential redevelopment, soil sampling related to agricultural use would be warranted.

Conclusions, Opinions and Recommendations

Partner has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-13 of APNs: 411-210-024 and 411-210-006 in Calimesa, Riverside County, California (the "subject property"). Any exceptions to, or deletions from, this practice are described in Section 1.5 of this report.

This assessment has revealed no evidence of RECs in connection with the subject property; however, an environmental issue was identified. Based on the conclusions of this assessment, Partner recommends no further investigation of the subject property at this time.

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1.0 INTRODUCTION

Partner Engineering and Science, Inc. (Partner) has performed a Phase I Environmental Site Assessment (ESA) in conformance with the scope and limitations of ASTM Standard Practice E1527-13 and the Environmental Protection Agency Standards and Practices for All Appropriate Inquiries (AAI) (40 CFR Part 312) for the property located at APNs: 411-210-024 and 411-210-006 in Calimesa, Riverside County, California (the "subject property"). Any exceptions to, or deletions from, this scope of work are described in the report.

1.1 Purpose

The purpose of this ESA is to identify existing or potential Recognized Environmental Conditions (as defined by ASTM Standard E1527-13) affecting the subject property that: 1) constitute or result in a material violation or a potential material violation of any applicable environmental law; 2) impose any material constraints on the operation of the subject property or require a material change in the use thereof; 3) require clean-up, remedial action or other response with respect to Hazardous Substances or Petroleum Products on or affecting the subject property under any applicable environmental law; 4) may affect the value of the subject property; and 5) may require specific actions to be performed with regard to such conditions and circumstances. The information contained in the ESA Report will be used by Client to: 1) evaluate its legal and financial liabilities for transactions related to foreclosure, purchase, sale, loan origination, loan workout or seller financing; 2) evaluate the subject property's overall development potential, the associated market value and the impact of applicable laws that restrict financial and other types of assistance for the future development of the subject property; and/or 3) determine whether specific actions are required to be performed prior to the foreclosure, purchase, sale, loan origination, loan workout or seller financing of the subject property.

This ESA was performed to permit the *User* to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on scope of Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) (42 U.S.C. §9601) liability (hereinafter, the "*landowner liability protections*," or "*LLPs*"). ASTM Standard E1527-13 constitutes "*all appropriate inquiry* into the previous ownership and uses of the *property* consistent with good commercial or customary practice" as defined at 42 U.S.C. §9601(35)(B).

1.2 Scope of Work

The scope of work for this ESA is in accordance with the requirements of ASTM Standard E1527-13. This assessment included: 1) a property and adjacent site reconnaissance; 2) interviews with key personnel; 3) a review of historical sources; 4) a review of regulatory agency records; and 5) a review of a regulatory database report provided by a third-party vendor. Partner contacted local agencies, such as environmental health departments, fire departments and building departments in order to determine any current and/or former hazardous substances usage, storage and/or releases of hazardous substances on the subject property. Additionally, Partner researched information on the presence of activity and use limitations (AULs) at these agencies. As defined by ASTM E1527-13, AULs are the legal or physical restrictions or limitations on the use of, or access to, a site or facility: 1) to reduce or eliminate potential exposure to hazardous substances or petroleum products in the soil or groundwater on the subject

property; or 2) to prevent activities that could interfere with the effectiveness of a response action, in order to ensure maintenance of a condition of no significant risk to public health or the environment. These legal or physical restrictions, which may include institutional and/or engineering controls (IC/ECs), are intended to prevent adverse impacts to individuals or populations that may be exposed to hazardous substances and petroleum products in the soil or groundwater on the property.

If requested by Client, this report may also include the identification, discussion of, and/or limited sampling of asbestos-containing materials (ACMs), lead-based paint (LBP), mold, and/or radon.

1.3 Limitations

Partner warrants that the findings and conclusions contained herein were accomplished in accordance with the methodologies set forth in the Scope of Work. These methodologies are described as representing good commercial and customary practice for conducting an ESA of a property for the purpose of identifying recognized environmental conditions. There is a possibility that even with the proper application of these methodologies there may exist on the subject property conditions that could not be identified within the scope of the assessment or which were not reasonably identifiable from the available information. Partner believes that the information obtained from the record review and the interviews concerning the subject property is reliable. However, Partner cannot and does not warrant or guarantee that the information provided by these other sources is accurate or complete. The conclusions and findings set forth in this report are strictly limited in time and scope to the date of the evaluations. The conclusions presented in the report are based solely on the services described therein, and not on scientific tasks or procedures beyond the scope of agreed-upon services or the time and budgeting restraints imposed by the Client. No other warranties are implied or expressed.

Some of the information provided in this report is based upon personal interviews, and research of available documents, records, and maps held by the appropriate government and private agencies. This report is subject to the limitations of historical documentation, availability, and accuracy of pertinent records, and the personal recollections of those persons contacted.

This practice does not address requirements of any state or local laws or of any federal laws other than the all appropriate inquiry provisions of the LLPs. Further, this report does not intend to address all of the safety concerns, if any, associated with the subject property.

Environmental concerns, which are beyond the scope of a Phase I ESA as defined by ASTM include the following: ACMs, LBP, radon, and lead in drinking water. These issues may affect environmental risk at the subject property and may warrant discussion and/or assessment; however, are considered non-scope issues. If specifically requested by the Client, these non-scope issues are discussed in Section 6.3.

1.4 User Reliance

Golden State Bank engaged Partner to perform this assessment in accordance with an agreement governing the nature, scope and purpose of the work as well as other matters critical to the engagement. All reports, both verbal and written, are for the sole use and benefit of Golden State Bank. Either verbally or in writing, third parties may come into possession of this report or all or part of the information generated as a result of this work. In the absence of a written agreement with Partner granting such rights, no third parties shall have rights of recourse or recovery whatsoever under any course of action

against Partner, its officers, employees, vendors, successors or assigns. Any such unauthorized user shall be responsible to protect, indemnify and hold Partner, Client and their respective officers, employees, vendors, successors and assigns harmless from any and all claims, damages, losses, liabilities, expenses (including reasonable attorneys' fees) and costs attributable to such Use. Unauthorized use of this report shall constitute acceptance of and commitment to these responsibilities, which shall be irrevocable and shall apply regardless of the cause of action or legal theory pled or asserted. Additional legal penalties may apply.

1.5 Limiting Conditions

The findings and conclusions contain all of the limitations inherent in these methodologies that are referred to in ASTM E1527-13.

Specific limitations and exceptions to this ESA are more specifically set forth below:

- Interviews with past or current owners, operators and occupants were not reasonably ascertainable and thus constitute a data gap. Based on information obtained from other historical sources (as discussed in Section 3.0), this data gap is not expected to alter the findings of this assessment.
- Partner requested information relative to deed restrictions and environmental liens, a title search, and completion of the AAI User Questionnaire from the Report User. This information was not provided at the time of the assessment. Based on information obtained from other historical sources (as discussed in Section 3.0), this data gap is not expected to alter the findings of this assessment.
- Partner submitted Freedom of Information Act (FOIA) requests to the Riverside County Environmental Health Department and the City of Calimesa for information pertaining to hazardous substances, underground storage tanks, releases, inspection records, etc. for the subject property and/or adjacent properties. As of this writing, these agencies have not responded to Partner's request. Based on information obtained from other historical sources, this limitation is not expected to alter the overall findings of this assessment.

2.0 SITE DESCRIPTION

2.1 Site Location and Legal Description

The subject property at APNs: 411-210-024 and 411-210-006 in Calimesa, California is located east of 7th Street and west of Interstate 10, approximately 400 feet north of Sandalwood Drive. According to the Riverside County Assessor, the subject property is legally described as APN numbers 411-210-024 and 411-210-006.

Please refer to Figure 1: Site Location Map, Figure 2: Site Plan, Figure 3: Topographic Map, and Appendix A: Site Photographs for the location and site characteristics of the subject property.

2.2 Current Property Use

The subject property currently consists of 9.56-acres of undeveloped land. No onsite operations are currently conducted at the subject property.

The subject property is designated for commercial use by the City of Calimesa.

The subject property was not identified in the regulatory database report of Section 4.2.

2.3 Current Use of Adjacent Properties

The subject property is located within a mixed commercial and residential area of Riverside County. During the vicinity reconnaissance, Partner observed the following land use on properties in the immediate vicinity of the subject property:

Immediately Surrounding Properties

North: Rural residences
South: Jack in the Box Restaurant (1199 7th Street)
East: Interstate 10 and commercial development
West: 7th Street followed by vacant land and a mobile home park

No adjacent properties were identified in the regulatory database report of Section 4.2.

2.4 Physical Setting Sources

2.4.1 Topography

The United States Geological Survey (USGS) *El Casco, California* Quadrangle 7.5-minute series topographic map was reviewed for this ESA. According to the contour lines on the topographic map, the subject property is located at approximately 2,371 feet above mean sea level (MSL). The contour lines in the area of the subject property indicate the area is sloping gently toward the south. The subject property is depicted on the 1996 map as vacant land.

A copy of the most recent topographic map is included as Figure 3 of this report.

2.4.2 Hydrology

According to topographic map interpretation, the direction of groundwater flow in the vicinity of the subject property is inferred to be toward the south. The nearest surface water in the vicinity of the subject property is an unnamed creek located west adjacent to the northern portion of the subject property. No

settling ponds, lagoons, surface impoundments, wetlands or natural catch basins were observed at the subject property during this assessment.

According to available information, a public water system operated by the Yucaipa Valley Water District serves the subject property vicinity. The sources of public water for Calimesa are rivers, lakes, and aqueducts, as well as underground aquifers.

According to a previous subsurface investigation conducted on a nearby property, the depth of groundwater in the vicinity of the subject property is inferred to be over 250 feet below ground surface (bgs).

2.4.3 Geology/Soils

The subject property is located in the upper Santa Ana Valley, which is roughly bounded by the San Gabriel Mountains to the north, the San Bernardino Mountains to the northeast, the Puente Hills and Chino Hills to the southwest and the San Jose Hills to the west. Also to the west, the upper Santa Ana Valley is contiguous with the eastern end of the San Gabriel Valley. Sediments in the area consist of silt, sand, and clay from near surface to at least 35 feet below grade.

Based on information obtained from the USDA Natural Resources Conservation Service Web Soil Survey online database, the subject property is mapped as Ramona very fine sandy loam and San Timoteo loam. The Ramona series is a member of the fine-loamy, mixed, thermic family of Typic Haploxeralfs. Typically, Ramona soils have brown, slightly and medium acid, sandy loam and fine sandy loam A horizons, reddish brown and yellowish red, slightly acid, sandy clay loam B2t horizons, and strong brown, neutral, fine sandy loam C horizons. The San Timoteo series consists of moderately deep, well to somewhat excessively drained soils formed in material weathered from shale, sandstone and calcified weathered granite. San Timoteo soils are on uplands and have slopes of 2 to 75 percent. The mean annual precipitation is about 16 inches and the mean annual temperature is about 63 degrees F.

2.4.4 Flood Zone Information

Partner performed a review of the Flood Insurance Rate Map, published by the Federal Emergency Management Agency. According to Community Panel Number 06065C0785G, dated August 8, 2008, the subject property appears to be located in Zone X, an area located outside of the 100-year and 500-year flood plains.

3.0 HISTORICAL INFORMATION

Partner obtained historical use information about the subject property from a variety of sources. A chronological listing of the historical data found is summarized in the table below:

Historical Use Information		
Period/Date	**Source**	**Description/Use**
1938-Present	Aerial Photographs, Interviews, Onsite Observations, Topographic Maps	Undeveloped and/or agricultural land

The subject property was historically used for agricultural purposes. There is a potential that agricultural related chemicals such as pesticides, herbicides, and fertilizers, may have been used and stored onsite. During future site development activities, near surface soils (where residual agricultural chemical concentrations would have most likely been present, if at all) will generally be mixed with fill material or disturbed during grading. Also, it is common that engineered fill material is placed over underlying soils as part of the development activities. Furthermore, it is likely that residual agricultural chemicals (if any) would have likely degraded since the site was last utilized for agricultural purposes. These additional variables serve to further reduce the potential for exposure to residual agricultural chemicals (if any). Based on these reasons, Partner concludes that the possible former use of agricultural chemicals is not expected to represent a significant environmental concern at this time; however, if the subject property is planned for residential redevelopment, soil sampling related to agricultural use would be warranted. No other potential environmental concerns were identified in association with the current or former use of the subject property.

3.1 Aerial Photograph Review

Partner obtained available aerial photographs of the subject property and surrounding area from Environmental Data Resources (EDR) on January 25, 2021. The following was observed on the subject property and adjacent properties during the aerial photograph review:

Date: 1938		***Scale: 1"=500'***
Subject Property:	Agricultural land	
North:	Agricultural land	
South:	Agricultural land	
East:	Agricultural land	
West:	Vacant land	

Date: 1949		***Scale: 1"=500'***
Subject Property:	No significant changes visible	
North:	No significant changes visible	
South:	No significant changes visible	
East:	No significant changes visible	
West:	No significant changes visible	

Date: 1953		***Scale: 1"=500'***
Subject Property:	No significant changes visible	
North:	No significant changes visible	
South:	No significant changes visible	

Date: 1953		***Scale: 1"=500'***
East:	No significant changes visible	
West:	No significant changes visible	

Date: 1959		***Scale: 1"=500'***
Subject Property:	No significant changes visible	
North:	Appears to be occupied by agricultural structures (greenhouses)	
South:	No significant changes visible	
East:	No significant changes visible	
West:	No significant changes visible	

Date: 1961		***Scale: 1"=500'***
Subject Property:	No significant changes visible	
North:	Appears to be occupied by agricultural structures (greenhouses)	
South:	No significant changes visible	
East:	No significant changes visible	
West:	No significant changes visible	

Date: 1967		***Scale: 1"=500'***
Subject Property:	Appears to consist of vacant land	
North:	Appears to be occupied by rural residences and agricultural structures (greenhouses)	
South:	No significant changes visible	
East:	Appears to be occupied by Interstate 10 followed by vacant land	
West:	Appears to be occupied by vacant land and a mobile home park across a roadway	

Date: 1975		***Scale: 1"=500'***
Subject Property:	No significant changes visible	
North:	Appears to be occupied by residences and vacant land	
South:	No significant changes visible	
East:	No significant changes visible	
West:	No significant changes visible	

Date: 1985		***Scale: 1"=500'***
Subject Property:	No significant changes visible	
North:	No significant changes visible	
South:	No significant changes visible	
East:	No significant changes visible	
West:	No significant changes visible	

Date: 1989		***Scale: 1"=500'***
Subject Property:	No significant changes visible	
North:	No significant changes visible	
South:	No significant changes visible	
East:	No significant changes visible	
West:	No significant changes visible	

Date: 1990		***Scale: 1"=500'***

Date: 1990	***Scale: 1"=500'***
Subject Property:	No significant changes visible
North:	No significant changes visible
South:	No significant changes visible
East:	No significant changes visible
West:	No significant changes visible

Date: 1995	***Scale: 1"=500'***
Subject Property:	No significant changes visible
North:	No significant changes visible
South:	No significant changes visible
East:	No significant changes visible
West:	No significant changes visible

Date: 2002	***Scale: 1"=500'***
Subject Property:	No significant changes visible
North:	No significant changes visible
South:	Appears to be occupied by the current restaurant structure
East:	No significant changes visible
West:	No significant changes visible

Date: 2009	***Scale: 1"=500'***
Subject Property:	No significant changes visible
North:	No significant changes visible
South:	No significant changes visible
East:	Appears to be occupied by commercial structures across Interstate 10
West:	No significant changes visible

Date: 2012	***Scale: 1"=500'***
Subject Property:	No significant changes visible
North:	No significant changes visible
South:	No significant changes visible
East:	No significant changes visible
West:	No significant changes visible

Date: 2016	***Scale: 1"=500'***
Subject Property:	No significant changes visible
North:	No significant changes visible
South:	No significant changes visible
East:	No significant changes visible
West:	No significant changes visible

Copies of select aerial photographs are included in Appendix B of this report.

3.2 Fire Insurance Maps

Partner reviewed the collection of Sanborn Fire insurance maps from Environmental Data Resources (EDR) January 25, 2021. Sanborn map coverage was not available for the subject property.

Copies of reviewed Sanborn Maps are included in Appendix B of this report.

3.3 City Directories

Partner reviewed historical city directories obtained from Environmental Data Resources (EDR) on January 29, 2021 for past names and businesses that were listed for the subject property and adjacent properties. The findings are presented in the following table:

City Directory Search for** APN: 411-210-024 and 411-210-006 **(Subject Property)

Year(s)	Occupant Listed
1971	No Listing
1974	No Listing
1980	No Listing
1992	No Listing
1995	No Listing
2000	No Listing
2005	No Listing
2010	No Listing
2014	No Listing
2017	No Listing

Based on the city directory review, no environmentally sensitive listings were identified for the subject property addresses.

City Directory Search for Adjacent Properties

Year(s)	Occupant Listed
1971	Residential Listings
1974	Residential Listings
1980	Residential Listings, Calimesa Wholesale Nursery (1100 7th Street)
1985	Residential Listings, Calimesa Wholesale Nursery (1100 7th Street)
1992	Residential Listing, Hollandia Farms (1100 7th Street)
1995	Residential Listings, Hollandia Farms (1100 7th Street)
2000	Residential Listing, Hollandia Farms (1100 7th Street)
2005	Residential Listings, Hollandia Farms (1100 7th Street), Jack in the Box (1199 7th Street)
2010	Residential Listings, Jack in the Box (1199 7th Street)
2014	Residential Listings, Jack in the Box (1199 7th Street)
2017	Residential Listings, Jack in the Box (1199 7th Street)

Based on the city directory review, no environmentally sensitive listings were identified for the adjacent property addresses.

Copies of reviewed city directories are included in Appendix B of this report.

3.4 Historical Topographic Maps

Partner reviewed historical topographic maps obtained from Environmental Data Resources (EDR) on January 25, 2021. The following was observed on the subject property and adjacent properties during the topographic map review:

Date: 1942

Subject Property: Depicted as vacant land
North: Depicted as occupied by a small structure
South: Depicted as vacant land
East: Depicted as vacant land
West: Depicted as vacant land

Date: 1943

Subject Property: No significant changes depicted
North: No significant changes depicted
South: No significant changes depicted
East: No significant changes depicted
West: No significant changes depicted

Date: 1953, 1954

Subject Property: No significant changes depicted
North: Depicted as occupied by a small structure
South: No significant changes depicted
East: No significant changes depicted
West: No significant changes depicted

Date: 1967

Subject Property: No significant changes depicted
North: No significant changes depicted
South: No significant changes depicted
East: Depicted as occupied by Interstate 10 followed by vacant land
West: Depicted as vacant land and a trailer park across a roadway

Date: 1979, 1980

Subject Property: No significant changes depicted
North: No significant changes depicted
South: No significant changes depicted
East: No significant changes depicted
West: No significant changes depicted

Date: 1996

Subject Property:	No significant changes depicted
North:	No significant changes depicted
South:	No significant changes depicted
East:	No significant changes depicted
West:	No significant changes depicted

Copies of reviewed topographic maps are included in Appendix B of this report.

4.0 REGULATORY RECORDS REVIEW

4.1 Regulatory Agencies

4.1.1 State Department

Regulatory Agency Data	
Name of Agency:	California Department of Toxic Substances Control (DTSC)
Point of Contact:	N/A
Agency Address:	5796 Corporate Avenue, Cypress, California
Agency Phone Number:	(714) 484-5300
Date of Contact:	January 27, 2021
Method of Communication:	Online
Summary of Communication:	No records regarding a release or the presence of AULs on the subject property were on file with the DTSC.

4.1.2 Health Department

Regulatory Agency Data	
Name of Agency:	Riverside County Department of Environmental Health (RCDEH)
Point of Contact:	NA
Agency Address:	4065 County Circle Drive-Room 104, Riverside, California
Agency Phone Number:	(951) 358-5055
Date of Contact:	January 27, 2021
Method of Communication:	Faxed Request
Summary of Communication:	As of the date of this report, Partner has not received a response from the RCEHD for inclusion in this report.

4.1.3 Air Pollution Control Agency

Regulatory Agency Data	
Name of Agency:	Air Quality Management District (AQMD)
Point of Contact:	N/A
Agency Address:	21865 Copley Dr, Diamond Bar, California
Agency Phone Number:	(909) 396-2000
Date of Contact:	January 27, 2021
Method of Communication:	Online
Summary of Communication:	No records for the subject property were identified in AQMD online records.

4.1.4 Regional Water Quality Agency

Regulatory Agency Data	
Name of Agency:	Regional Water Quality Control Board (RWQCB)
Point of Contact:	Laura Gallardo
Agency Address:	320 W. 4th St, Los Angeles, California
Agency Phone Number:	(213) 576-6600
Date of Contact:	January 27, 2021
Method of Communication:	Online
Summary of Communication:	No records for the subject property were identified in RWQCB online records.

4.1.5 Building Department

Regulatory Agency Data	
Name of Agency:	City of Calimesa Building and Safety Department
Point of Contact:	Records Clerk
Agency Address:	908 Park Avenue, Calimesa, CA 92320
Agency Phone Number:	(909) 795-9801
Date of Contact:	January 27, 2021
Method of Communication:	Telephone
Summary of Communication:	As of the date of this report, Partner has not received a response from the CBD for inclusion in this report.

A copy of pertinent documents is included in Appendix B of this report.

4.1.6 Planning Department

Regulatory Agency Data	
Name of Agency:	City of Calimesa Building and Safety Department
Point of Contact:	Records Clerk
Agency Address:	908 Park Avenue, Calimesa, CA 92320
Agency Phone Number:	(909) 795-9801
Date of Contact:	January 27, 2021
Method of Communication:	Online
Summary of Communication:	According to records reviewed, the subject property is zoned for commercial use.

4.1.7 Oil & Gas Exploration

Regulatory Agency Data	
Name of Agency:	California Division of Oil, Gas and Geothermal Resources (DOGGR)
Point of Contact:	N/A
Agency Address:	801 K Street, Sacramento, California
Agency Phone Number:	(916) 322-1080
Date of Contact:	January 27, 2021
Method of Communication:	Online
Summary of Communication:	According to DOGGR, no oil or gas wells are located on or adjacent to the subject property.

4.1.8 Assessor's Office

Regulatory Agency Data	
Name of Agency:	Riverside County Assessor (RCA)
Point of Contact:	N/A
Agency Address:	2720 Gateway Drive, Riverside, California
Agency Phone Number:	(951) 955-6200
Date of Contact:	January 27, 2021
Method of Communication:	Online
Summary of Communication:	According to assessor records, the subject property consists of two parcels of land (APN 411-210-024 and 411-210-006) that comprise 9.56 acres of land. No records regarding property ownership, building size, and utility information for the subject property was

Regulatory Agency Data

available from the Riverside County Assessor's Office.

4.2 Mapped Database Records Search

Information from standard federal, state, county, and city environmental record sources was provided by Environmental Data Resources, Inc. (EDR). Data from governmental agency lists are updated and integrated into one database, which is updated as these data are released. The information contained in this report was compiled from publicly available sources and the locations of the sites are plotted utilizing a geographic information system, which geocodes the site addresses. The accuracy of the geocoded locations is approximately +/-300 feet.

Using the ASTM definition of migration, Partner considers the migration of hazardous substances or petroleum products in any form onto the subject property during the evaluation of each site listed on the radius report, which includes solid, liquid, and vapor.

4.2.1 Regulatory Database Summary

Radius Report Data

Database	Search Radius (mile)	Subject Property	Adjacent Properties	Sites of Concern
Federal NPL or Delisted NPL Site	1.00	N	N	N
Federal CERCLIS Site	0.50	N	N	N
Federal CERCLIS-NFRAP Site	0.50	N	N	N
Federal RCRA CORRACTS Facility	1.00	N	N	N
Federal RCRA TSDF Facility	0.50	N	N	N
Federal RCRA Generators Site (LQG, SQG, CESQG)	0.25	N	N	N
Federal IC/EC Registries	0.50	N	N	N
Federal ERNS Site	Subject Property	N	N	N
State/Tribal Equivalent NPL	1.00	N	N	N
State/Tribal Equivalent CERCLIS	1.00	N	N	N
State/Tribal Landfill/Solid Waste Disposal Site	0.50	N	N	N
State/Tribal Leaking Storage Tank Site	0.50	N	N	Y
State/Tribal Registered Storage Tank Sites (UST/AST)	0.25	N	N	N
State/Tribal Voluntary Cleanup Sites (VCP)	0.50	N	N	N
State/Tribal Spills	0.50	N	N	N
Federal Brownfield Sites	0.50	N	N	N
State Brownfield Sites	0.50	N	N	N
EDR MGP	Varies	N	N	N
EDR US Hist Auto Station	Varies	N	N	N
EDR US Hist Cleaners	Varies	N	N	N

4.2.2 Subject Property Listings

The subject property is not identified in the regulatory database report.

4.2.3 Adjacent Property Listings

The adjacent properties are not identified in the regulatory database report.

Based on the findings, vapor migration is not expected to represent a significant environmental concern at this time.

4.2.4 Sites of Concern Listings

No sites of concern are identified in the regulatory database report. Based on various mitigating factors including relative distance from the subject property, inferred direction of groundwater flow, media affected, and/or regulatory status, the remaining listed sites within the specified search radius of the subject property which appeared on local, State, or Federally published lists of sites that have had releases of hazardous substances, are not expected to represent a significant environmental concern. Based on the findings, vapor migration from the surrounding properties is not expected to represent a significant environmental concern at this time.

4.2.5 Orphan Listings

No orphan listings of concern are identified in the regulatory database report.

A copy of the regulatory database report is included in Appendix C of this report.

5.0 USER PROVIDED INFORMATION AND INTERVIEWS

In order to qualify for one of the *Landowner Liability Protections (LLPs)* offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the *Brownfields Amendments*), the *User* must conduct the following inquiries required by 40 CFR 312.25, 312.28, 312.29, 312.30, and 312.31. The *User* should provide the following information to the *environmental professional*. Failure to provide this information could result in a determination that *all appropriate inquiries* is not complete. The *User* is asked to provide information or knowledge of the following:

- Review Title and Judicial Records for Environmental Liens and AULs
- Specialized Knowledge or Experience of the User
- Actual Knowledge of the User
- Reason for Significantly Lower Purchase Price
- Commonly Known or *Reasonably Ascertainable* information
- Degree of Obviousness
- Reason for Preparation of this Phase I ESA

Fulfillment of these user responsibilities is key to qualification for the identified defenses to CERCLA liability. Partner requested our Client to provide information to satisfy User Responsibilities as identified in Section 6 of the ASTM guidance.

Pursuant to ASTM E1527-13, Partner requested the following site information from Golden State Bank (User of this report).

User Responsibilities				
Item	**Provided By User**	**Not Provided By User**	**Discussed Below**	**Does Not Apply**
AAI User Questionnaire			**X**	
Title Records, Environmental Liens, and AULs			**X**	
Specialized Knowledge			**X**	
Actual Knowledge			**X**	
Valuation Reduction for Environmental Issues			**X**	
Identification of Key Site Manager	**Section 5.1.3**			
Reason for Performing Phase I ESA	**Section 1.1**			
Prior Environmental Reports		**X**		
Other		**X**		

5.1 Interviews

5.1.1 Interview with Owner

The owner of the subject property was not available to be interviewed at the time of the assessment.

5.1.2 Interview with Report User

Please refer to Section 5.2 below for information requested from the Report User. The information requested was not received prior to the issuance of this report. Because the Report User (Client) is a lender, it is understood that the Report User would not have knowledge of the property that would significantly impact our ability to satisfy the objectives of this assessment. The lack of this information is not considered to represent a significant data gap.

5.1.3 Interview with Key Site Manager

Ms. Ofelia Ahumada with JNT Management, key site manager, indicated that she had no information pertaining to any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the subject property; any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the subject property; or any notices from a governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products.

5.1.4 Interviews with Past Owners, Operators and Occupants

Interviews with past owners, operators and occupants were not conducted since information regarding the potential for contamination at the subject property was obtained from other sources.

5.1.5 Interview with Others

As the subject property is not an abandoned property as defined in ASTM 1527-13, interview with others were not performed.

5.2 User Provided Information

5.2.1 Title Records, Environmental Liens, and AULs

Partner was not provided with title records or environmental lien and AUL information for review as part of this assessment.

5.2.2 Specialized Knowledge

The User did not have specialized knowledge of environmental conditions associated with the subject property at the time of the assessment.

5.2.3 Actual Knowledge of the User

The User was not aware of environmental liens and/or AULs encumbering the subject property or in connection with the subject property at the time of the assessment.

5.2.4 Valuation Reduction for Environmental Issues

The User was not aware of any reductions in property value due to environmental issues.

5.2.5 Commonly Known or Reasonably Ascertainable Information

The User did not provide information that is commonly known or *reasonably ascertainable* within the local community about the subject property at the time of the assessment.

5.2.6 Previous Reports and Other Provided Documentation

No previous reports or other pertinent documentation was provided to Partner for review during the course of this assessment.

6.0 SITE RECONNAISSANCE

The weather at the time of the site visit was overcast. Refer to Section 1.5 for limitations encountered during the field reconnaissance and Sections 2.1 and 2.2 for subject property operations. The table below provides the site assessment details:

Site Assessment Data	
Site Assessment Performed By:	Tatjana McCondichie
Site Assessment Conducted On:	January 29, 2021

Partner was unaccompanied during the site visit.

No potential environmental concerns were identified during the onsite reconnaissance.

6.1 General Site Characteristics

6.1.1 Solid Waste Disposal

As the subject property is vacant land, solid waste is not currently generated onsite. No evidence of illegal dumping of solid waste was observed during the Partner site reconnaissance.

6.1.2 Sewage Discharge and Disposal

As the subject property is vacant land, no sanitary discharges are currently generated onsite.

6.1.3 Surface Water Drainage

Storm water is removed from the subject property primarily by percolation into the uncapped ground surface.

The subject property does not appear to be a designated wetland area, based on information obtained from the United States Department of Agriculture; however, a comprehensive wetlands survey would be required in order to formally determine actual wetlands on the subject property. No surface impoundments, wetlands, natural catch basins, settling ponds, or lagoons are located on the subject property. No drywells were identified on the subject property.

6.1.4 Source of Heating and Cooling

As the subject property is vacant land, heating and cooling systems were not observed onsite. However, natural gas and electricity in the surrounding area is provided by Southern California Gas Company and the Southern California Edison, respectively.

6.1.5 Wells and Cisterns

No aboveground evidence of wells or cisterns was observed during the site reconnaissance.

6.1.6 Wastewater

As the subject property is vacant land, domestic wastewater is not currently generated at the subject property.

6.1.7 Septic Systems

No septic systems were observed or reported on the subject property.

6.1.8 Additional Site Observations

No additional general site characteristics were observed during the site reconnaissance.

6.2 Potential Environmental Hazards

6.2.1 Hazardous Substances and Petroleum Products Used or Stored at the Site

No hazardous substances or petroleum products were observed on the subject property during the site reconnaissance.

6.2.2 Aboveground & Underground Hazardous Substance or Petroleum Product Storage Tanks (ASTs/USTs)

No evidence of current or former ASTs or USTs was observed during the site reconnaissance.

6.2.3 Evidence of Releases

No spills, stains or other indications that a surficial release has occurred at the subject property were observed.

6.2.4 Polychlorinated Biphenyls (PCBs)

No potential PCB-containing equipment (transformers, oil-filled switches, hoists, lifts, dock levelers, hydraulic elevators, etc) was observed on the subject property during Partner's reconnaissance.

6.2.5 Strong, Pungent or Noxious Odors

No strong, pungent or noxious odors were evident during the site reconnaissance.

6.2.6 Pools of Liquid

No pools of liquid were observed on the subject property during the site reconnaissance.

6.2.7 Drains, Sumps and Clarifiers

What appeared to be a storm drain was observed on the northwest corner of the subject property. No staining indicative of dumping was observed around the drain.

No sumps or clarifiers were observed on the subject property during the site reconnaissance.

6.2.8 Pits, Ponds and Lagoons

No pits, ponds or lagoons were observed on the subject property.

6.2.9 Stressed Vegetation

No stressed vegetation was observed on the subject property.

6.2.10 Additional Potential Environmental Hazards

No additional environmental hazards, including landfill activities or radiological hazards, were observed.

6.3 Non-ASTM Services

6.3.1 Asbestos-Containing Materials (ACMs)

Due to the absence of structures on the subject property, ACMs were not considered within the scope of this assessment.

6.3.2 Lead-Based Paint (LBP)

Due to the absence of structures on the subject property, LBP was not considered within the scope of this assessment.

6.3.3 Radon

Radon is a colorless, odorless, naturally occurring, radioactive, inert, gaseous element formed by radioactive decay of radium (Ra) atoms. The US EPA has prepared a map to assist National, State, and local organizations to target their resources and to implement radon-resistant building codes. The map divides the country into three Radon Zones, according to the table below:

EPA Radon Zones		
EPA Zones	**Average Predicted Radon Levels**	**Potential**
Zone 1	Exceed 4.0 pCi/L	Highest
Zone 2	Between 2.0 and 4.0 pCi/L	Moderate
Zone 3	Less than 2.0 pCi/L	Low

It is important to note that the EPA has found homes with elevated levels of radon in all three zones, and the US EPA recommends site-specific testing in order to determine radon levels at a specific location. However, the map does give a valuable indication of the propensity of radon gas accumulation in structures.

Radon sampling was not conducted as part of this assessment. Review of the US EPA Map of Radon Zones places the subject property in Zone 2. Based upon the radon zone classification, radon is not considered to be a significant environmental concern.

6.3.4 Lead in Drinking Water

According to available information, a public water system operated by the Yucaipa Valley Water District serves the subject property vicinity. The sources of public water for Calimesa are rivers, lakes, and aqueducts, as well as underground aquifers. Water sampling was not conducted to verify water quality.

6.3.5 Mold

Due to the absence of structures on the subject property, a mold assessment was not conducted.

6.4 Adjacent Property Reconnaissance

The adjacent property reconnaissance consisted of observing the adjacent properties from the subject property premises. No items of environmental concern were identified on the adjacent properties during the site assessment, including hazardous substances, petroleum products, ASTs, USTs, evidence of releases, PCBs, strong or noxious odors, pools of liquids, sumps or clarifiers, pits or lagoons, stressed vegetation, or any other potential environmental hazards.

7.0 FINDINGS AND CONCLUSIONS

Findings

A *recognized environmental condition (REC)* refers to the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: due to release to the environment; under conditions indicative of a release to the environment; or under conditions that pose a material threat of a future release to the environment. The following was identified during the course of this assessment:

- Partner did not identify any RECs during the course of this assessment.

A *controlled recognized environmental condition (CREC)* refers to a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls. The following was identified during the course of this assessment:

- Partner did not identify any CRECs during the course of this assessment.

A *historical recognized environmental condition (HREC)* refers to a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls. The following was identified during the course of this assessment:

- Partner did not identify any HRECs during the course of this assessment.

An *environmental issue* refers to environmental concerns identified by Partner, which do not qualify as RECs; however, warrant further discussion. The following was identified during the course of this assessment:

- The subject property was historically used for agricultural purposes. There is a potential that agricultural related chemicals such as pesticides, herbicides, and fertilizers, may have been used and stored onsite. During future site development activities, near surface soils (where residual agricultural chemical concentrations would have most likely been present, if at all) will generally be mixed with fill material or disturbed during grading. Also, it is common that engineered fill material is placed over underlying soils as part of the development activities. Furthermore, it is likely that residual agricultural chemicals (if any) would have likely degraded since the site was last utilized for agricultural purposes. These additional variables serve to further reduce the potential for exposure to residual agricultural chemicals (if any). Based on these reasons, Partner concludes that the possible former use of agricultural chemicals is not expected to represent a significant environmental concern at this time; however, if the subject property is planned for residential redevelopment, soil sampling related to agricultural use would be warranted.

Conclusions, Opinions and Recommendations

Partner has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-13 of APN: 411-210-024 and 411-210-006 in Calimesa, Riverside

County, California (the "subject property"). Any exceptions to, or deletions from, this practice are described in Section 1.5 of this report.

This assessment has revealed no evidence of RECs in connection with the subject property; however, an environmental issue was identified. Based on the conclusions of this assessment, Partner recommends no further investigation of the subject property at this time.

8.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

Partner has performed a Phase I Environmental Site Assessment of the property located at APNs: 411-210-024 and 411-210-006 in Calimesa, Riverside County, California in conformance with the scope and limitations of the protocol and the limitations stated earlier in this report. Exceptions to or deletions from this protocol are discussed earlier in this report.

By signing below, Partner declares that, to the best of our professional knowledge and belief, we meet the definition of *Environmental Professional* as defined in §312.10 of 40 CFR §312. Partner has the specific qualifications based on education, training, and experience to assess a *property* of the nature, history, and setting of the subject *property*. Partner has developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Prepared By:



Tatjana McCondichie
Environmental Professional

Reviewed By:



David Boyce
Senior Author

9.0 REFERENCES

Reference Documents

American Society for Testing and Materials, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, ASTM Designation: E1527-13.

Environmental Data Resources (EDR), Radius Report, January 2021

Federal Emergency Management Agency, Federal Insurance Administration, National Flood Insurance Program, Flood Insurance Map, accessed via internet, January 2021

United States Department of Agriculture, Natural Resources Conservation Service, accessed via internet, January 2021

United States Department of Agriculture, Natural Resources Conservation Service, Web Soil Survey, accessed via the internet, January 2021

United States Environmental Protection Agency, EPA Map of Radon Zones (Document EPA-402-R-93-071), accessed via the internet, January 2021

United States Geological Survey, accessed via the Internet, January 2021

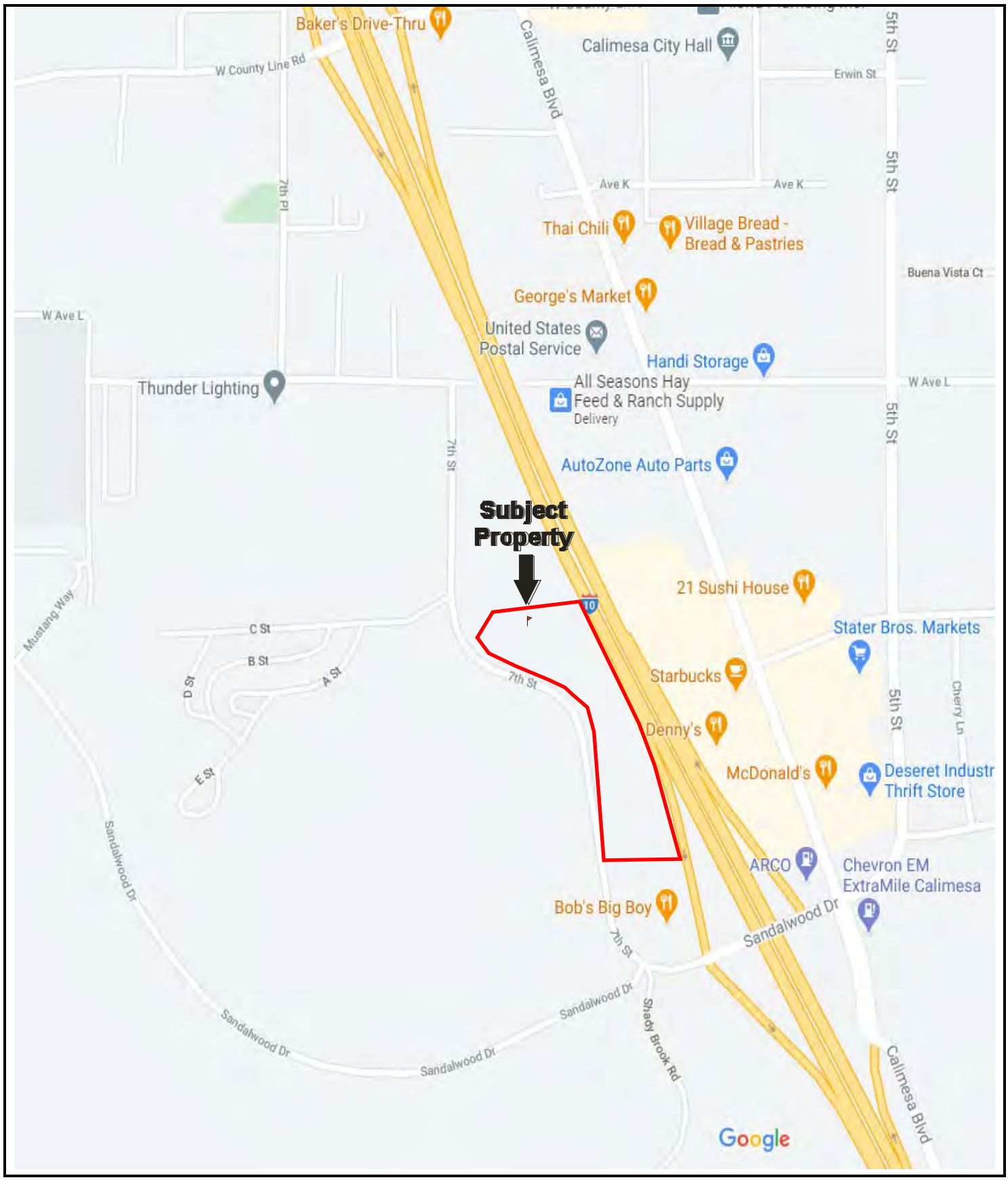
United States Geological Survey Topographic Map 1995, 7.5 minute series, accessed via internet, January 2021

FIGURES

1 SITE LOCATION MAP

2 SITE PLAN

3 TOPOGRAPHIC MAP



N

Drawing Not To Scale

KEY:
Subject Property

FIGURE 1: SITE LOCATION MAP
Project No. 21-306420.2

PARTNER



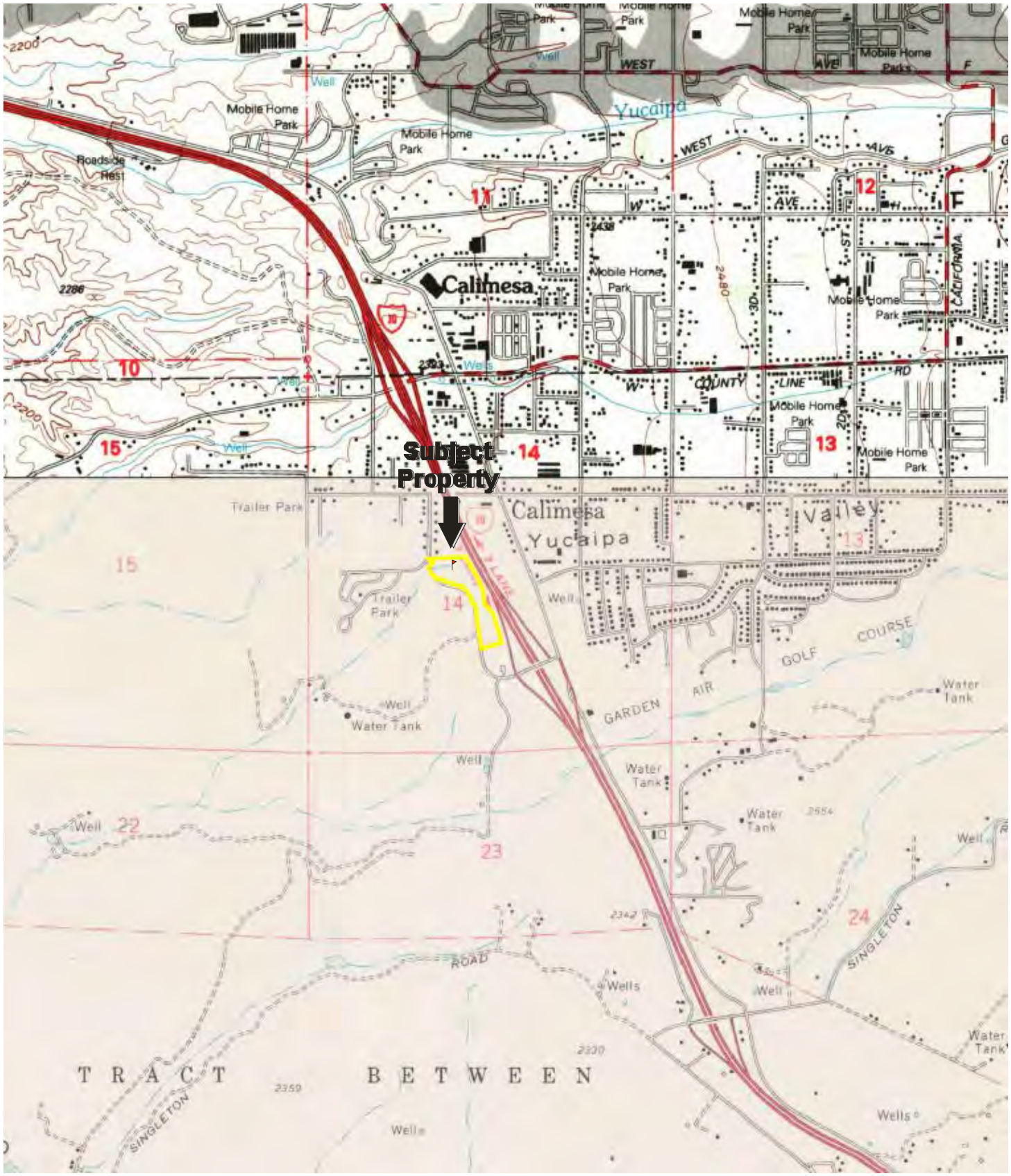
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GROUNDWATER FLOW

KEY:
Subject Property

FIGURE 2: SITE PLAN
Project No. 21-306420.2

PARTNER



N

USGS 7.5 Minute *Yucaipa, California* Quadrangle
Revised: 1996

KEY:
Subject Property

FIGURE 3: TOPOGRAPHIC MAP
Project No. 21-306420.2

PARTNER

APPENDIX A: SITE PHOTOGRAPHS



1. View of the subject property



2. View of the subject property



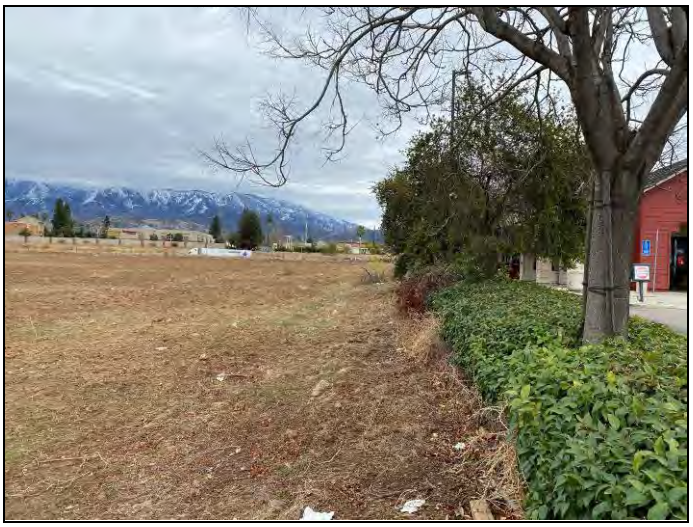
3. View of the a storm drain observed in the northwest corner of the subject property



4. View of the subject property



5. View from the southwest corner facing north



6. View from the southwest corner facing east



7. View from the southeast corner facing north



8. View from the northwest corner facing east



9. View of the north adjoining property



10. View of the south adjoining property



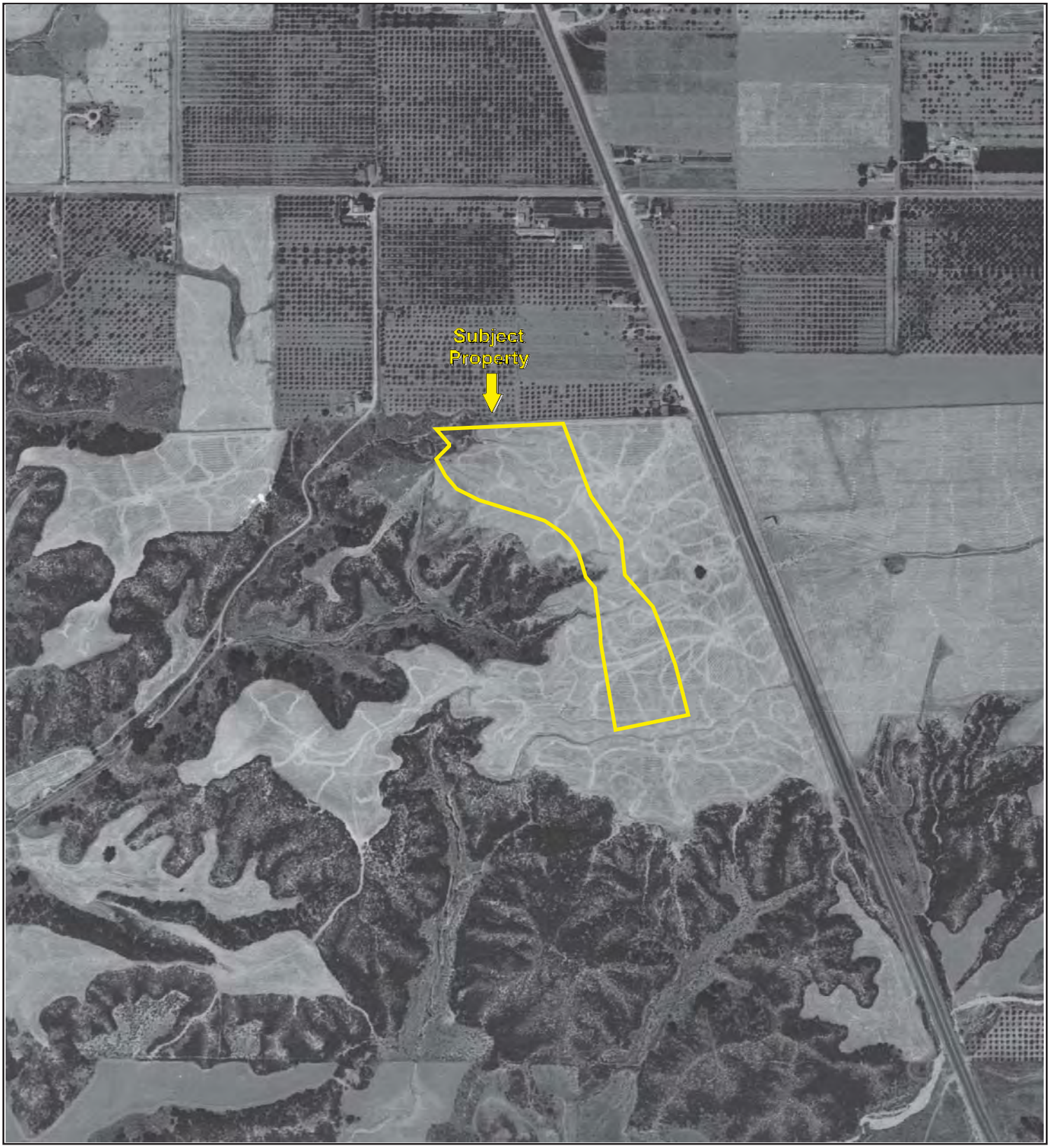
11. View of the east adjoining property



12. View of the west adjoining property

APPENDIX B: HISTORICAL/REGULATORY DOCUMENTATION

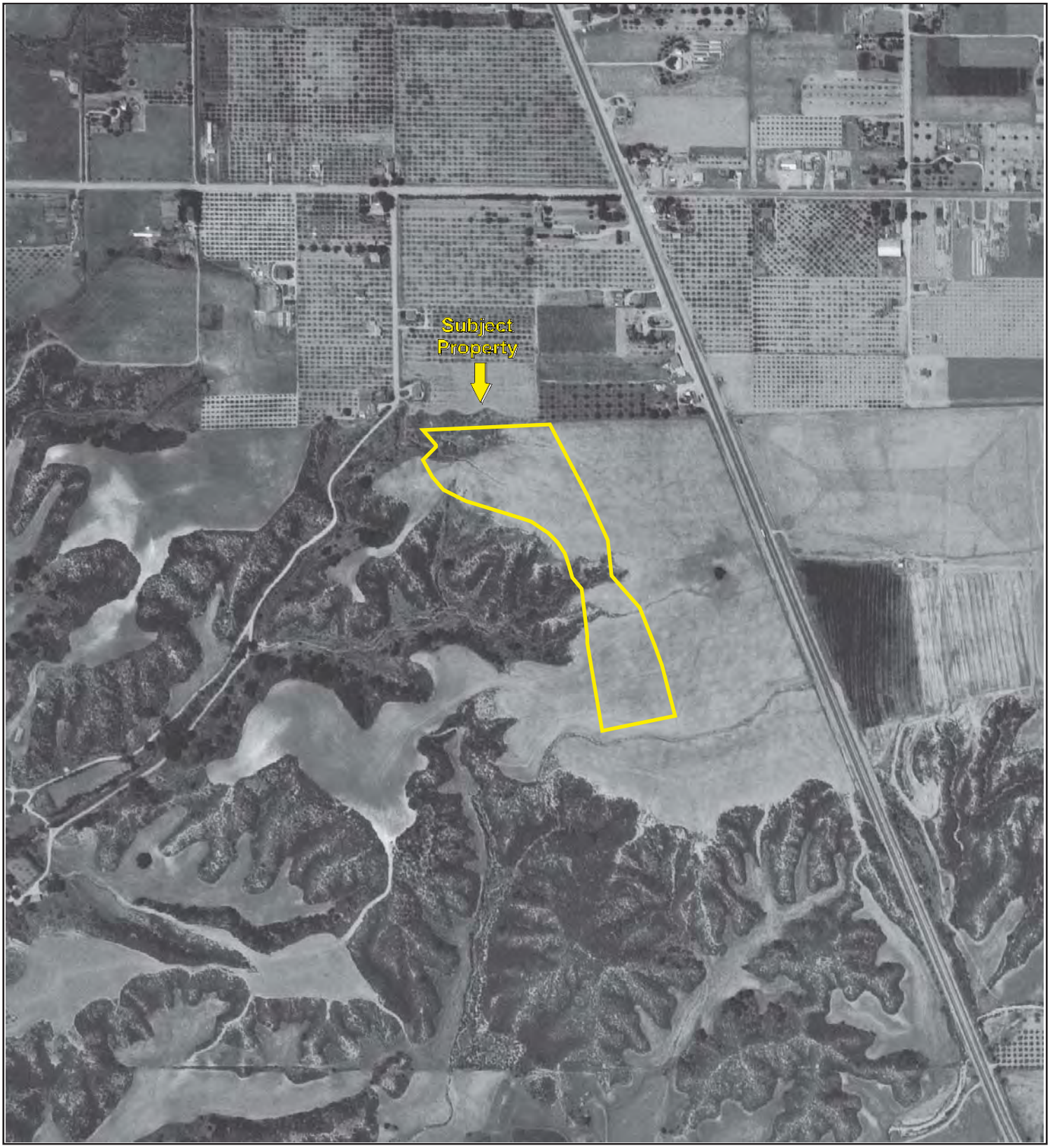
PARTNER



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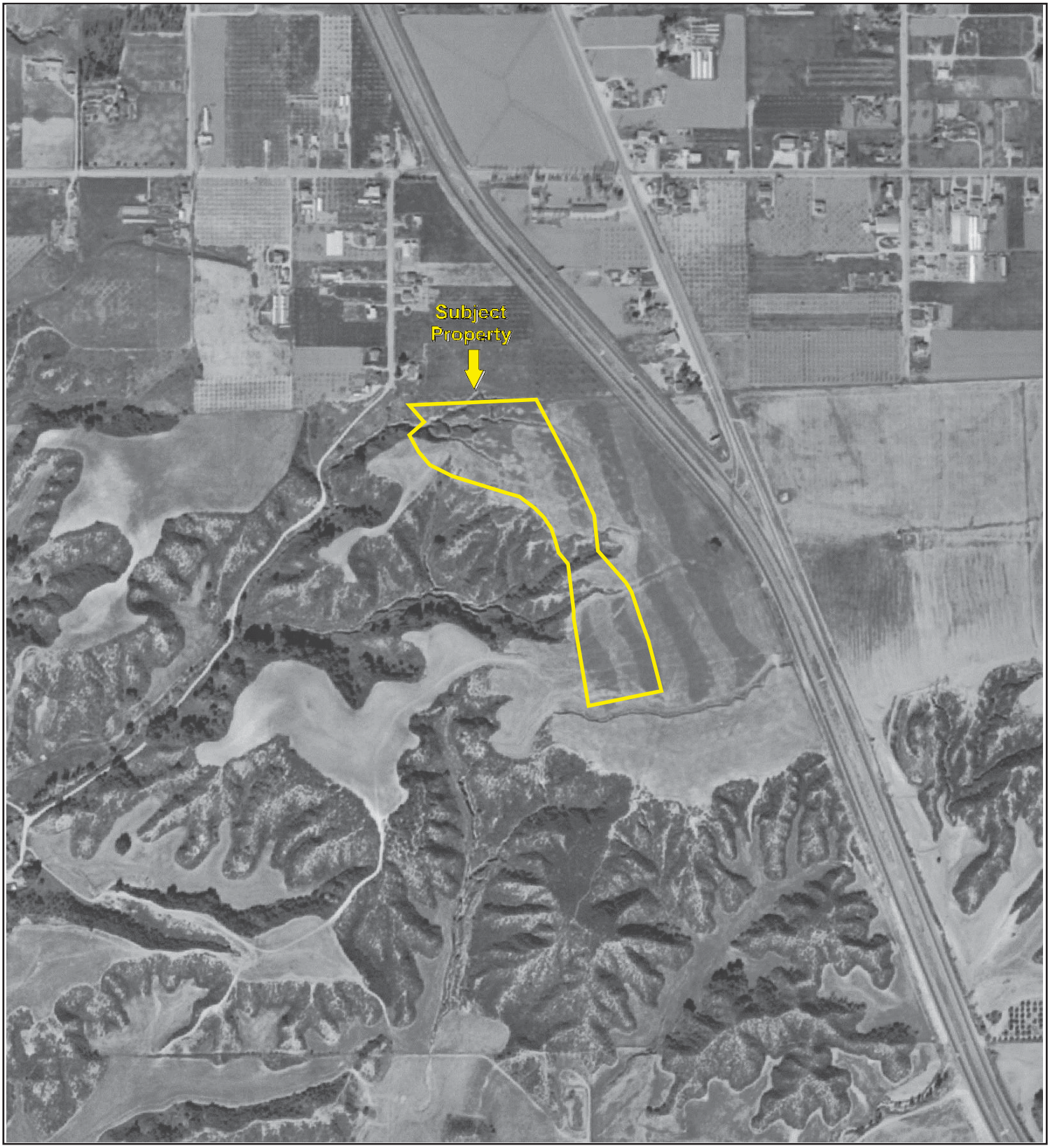
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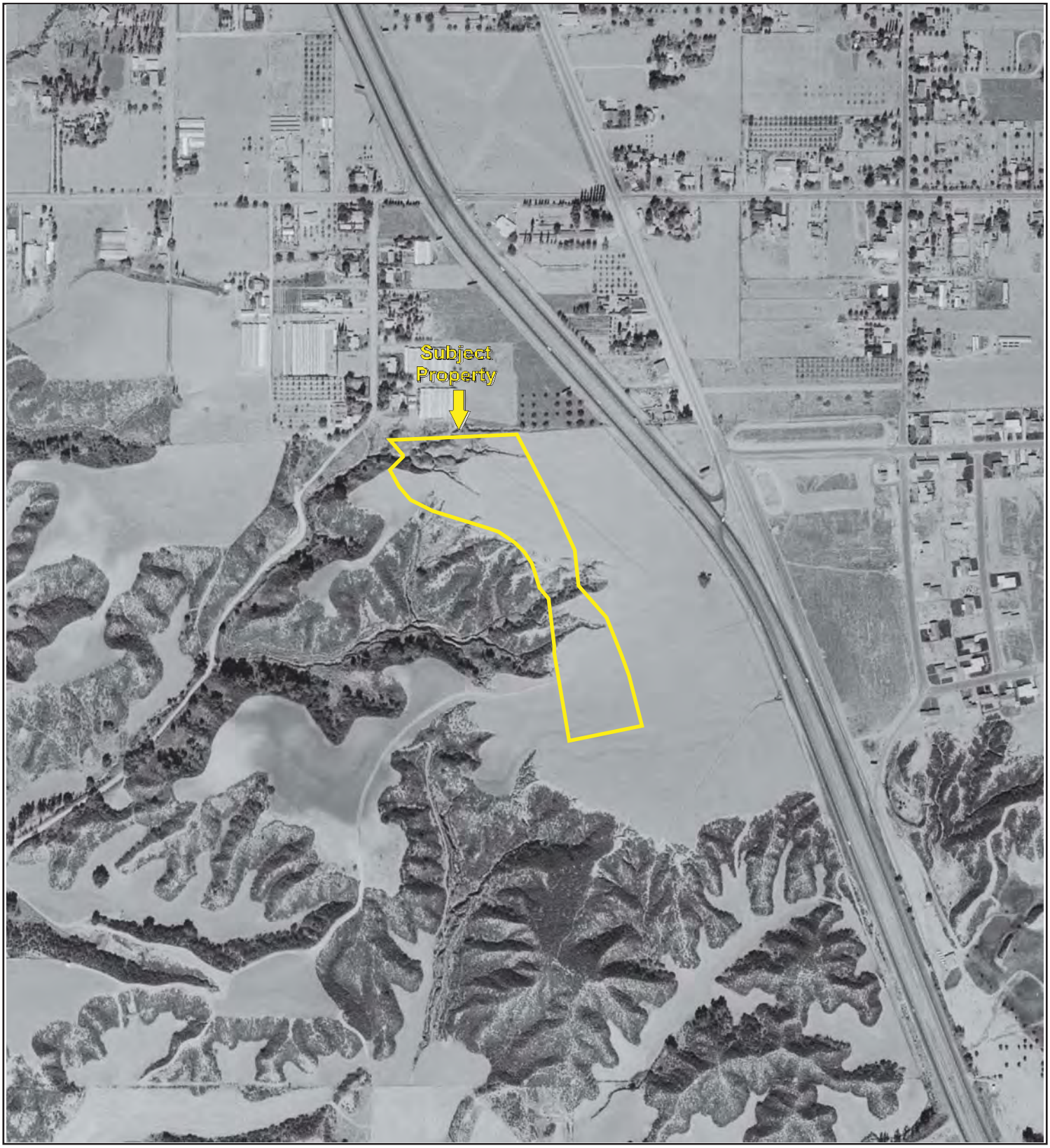
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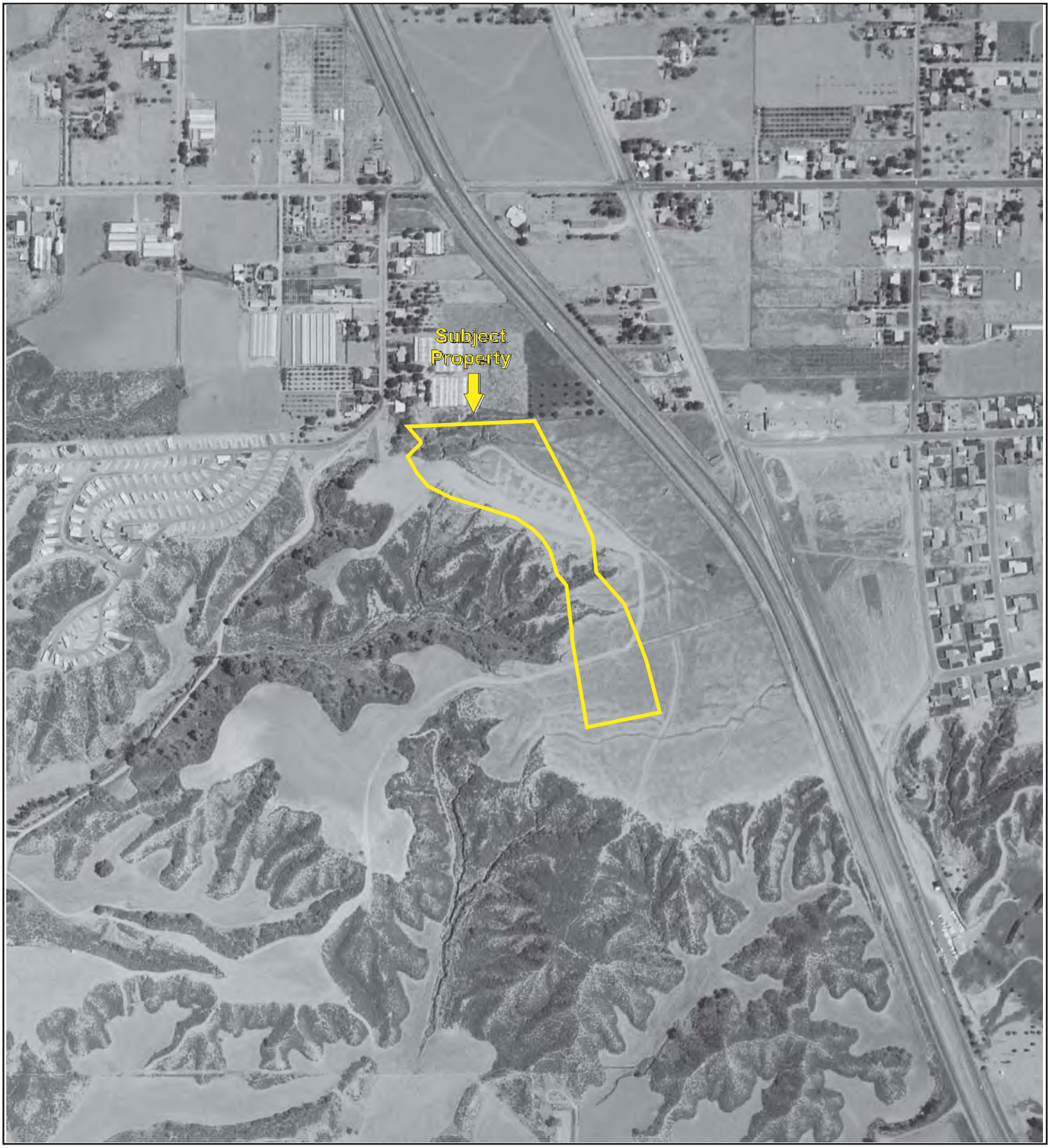
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Key: Subject Property



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Key: Subject Property



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Key: Subject Property



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Key: Subject Property



500 1000 2000

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Key: Subject Property

APN 411-210-024 and 411-210-006

APN 411-210-024 and 411-210-006

CALIMESA, CA 92320

Inquiry Number: 6342496.3

January 25, 2021

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

01/25/21

Site Name:

APN 411-210-024 and 411-21(
APN 411-210-024 and 411-21(
CALIMESA, CA 92320
EDR Inquiry # 6342496.3

Client Name:

Partner Engineering and Science, Inc.
2154 Torrance Blvd, Suite 200
Torrance, CA 90501-0000
Contact: Angie Lessire

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Certified Sanborn Results:

Certification # 86A6-4842-86BA

PO # 21-306420.2

Project 21-306420.2

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: 86A6-4842-86BA

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- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1899 Source Sheets



Redlands

15-minute, 62500

1901 Source Sheets



Redlands

15-minute, 62500

1942 Source Sheets



Perris

15-minute, 62500
Aerial Photo Revised 1939

1943 Source Sheets



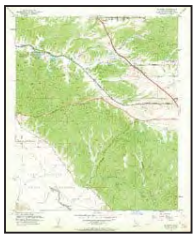
PERRIS

15-minute, 62500

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1953, 1954 Source Sheets



El Casco

7.5-minute, 24000
Aerial Photo Revised 1951



Yucaipa

7.5-minute, 24000
Aerial Photo Revised 1952

1954 Source Sheets



Redlands

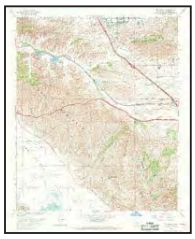
15-minute, 62500
Aerial Photo Revised 1952

1967 Source Sheets



Yucaipa

7.5-minute, 24000
Aerial Photo Revised 1966



El Casco

7.5-minute, 24000
Aerial Photo Revised 1966

1973 Source Sheets



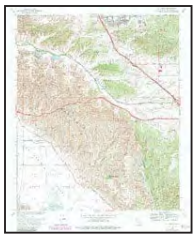
Yucaipa

7.5-minute, 24000
Aerial Photo Revised 1973

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1979, 1980 Source Sheets



El Casco

7.5-minute, 24000
Aerial Photo Revised 1976



Yucaipa

7.5-minute, 24000
Aerial Photo Revised 1978

1988 Source Sheets



Yucaipa

7.5-minute, 24000
Aerial Photo Revised 1985

1996 Source Sheets



El Casco

7.5-minute, 24000
Aerial Photo Revised 1996



Yucaipa

7.5-minute, 24000
Aerial Photo Revised 1994

2012 Source Sheets



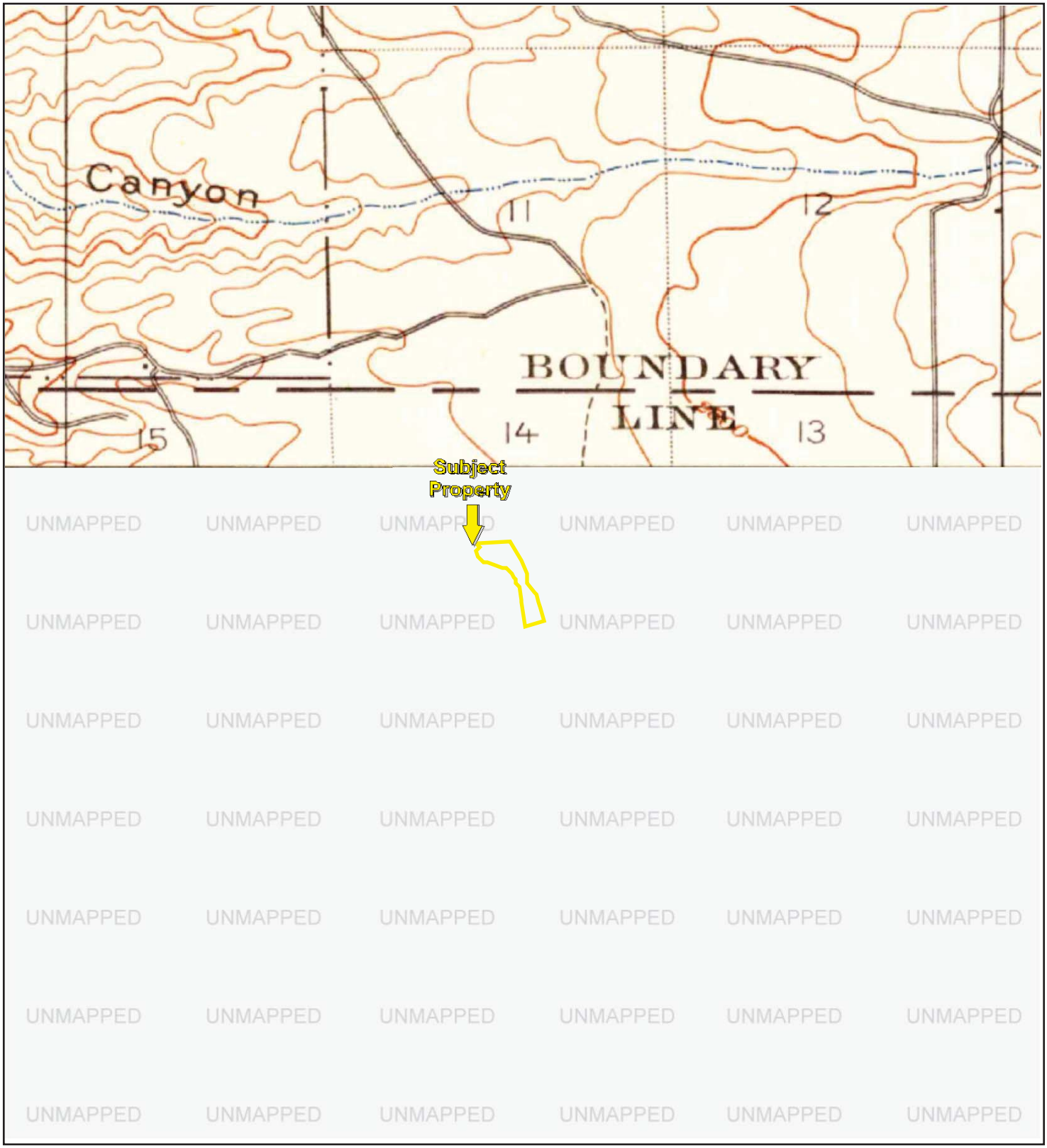
El Casco

7.5-minute, 24000



Yucaipa

7.5-minute, 24000



N, Redlands, 1899, 15-minute

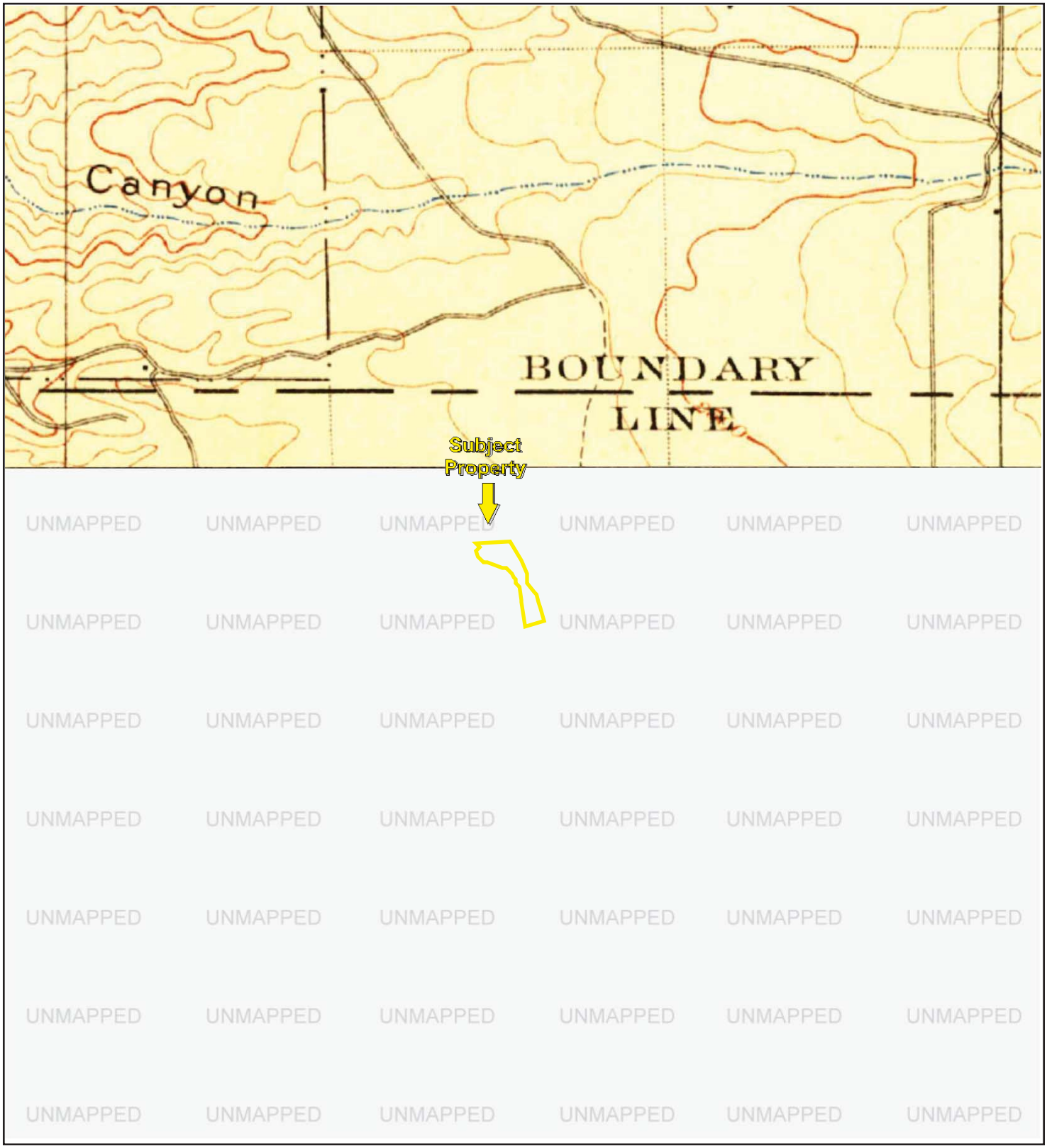
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Key: Subject Property

APPENDIX B: Topographic Maps

Project No. 21-306420.2



N, Redlands, 1901, 15-minute

0 Miles 0.25 0.5 1 1.5

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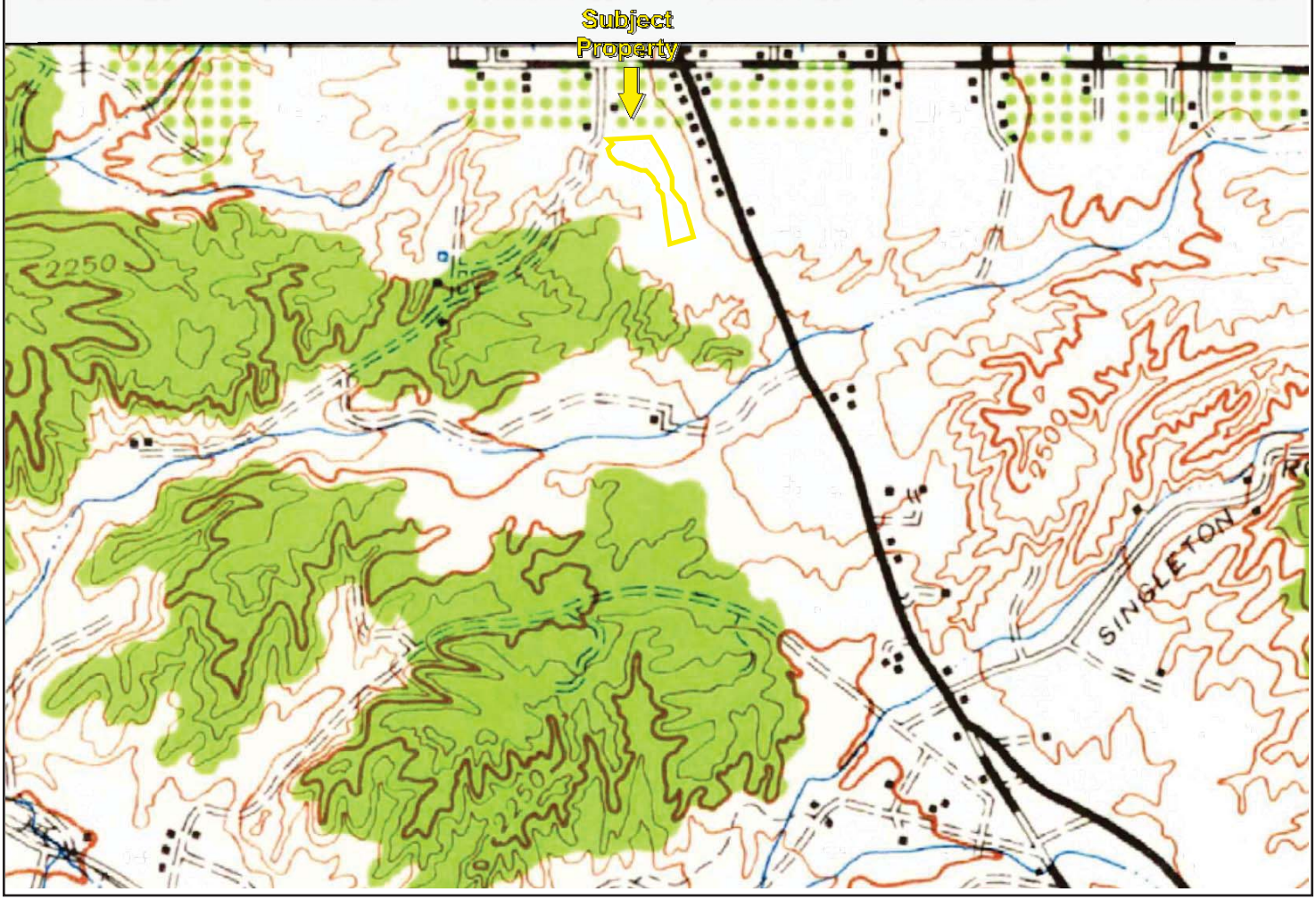
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APPENDIX B: Topographic Maps

Project No. 21-306420.2

PARTNER

UNMAPPED



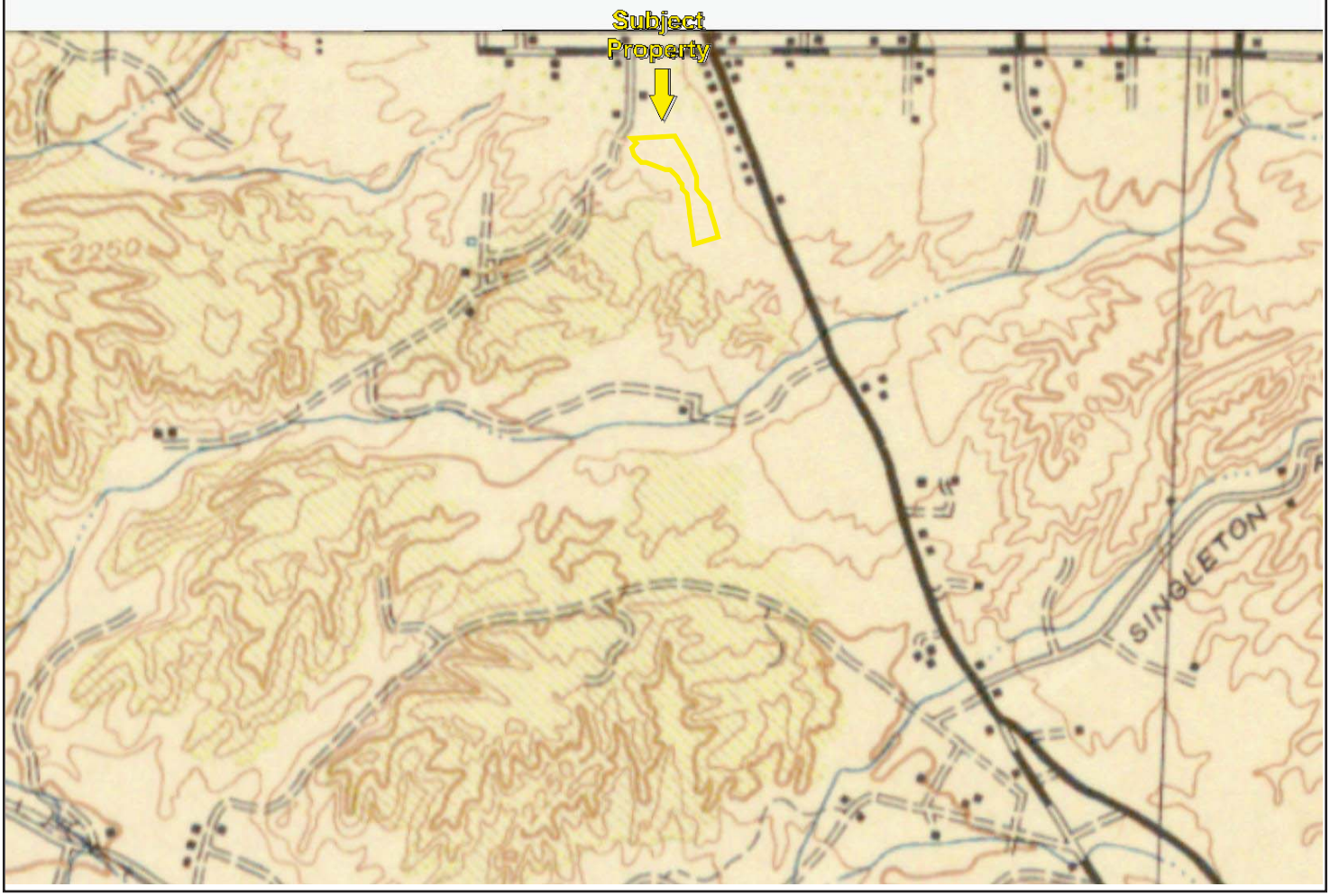
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Key: Subject Property

UNMAPPED

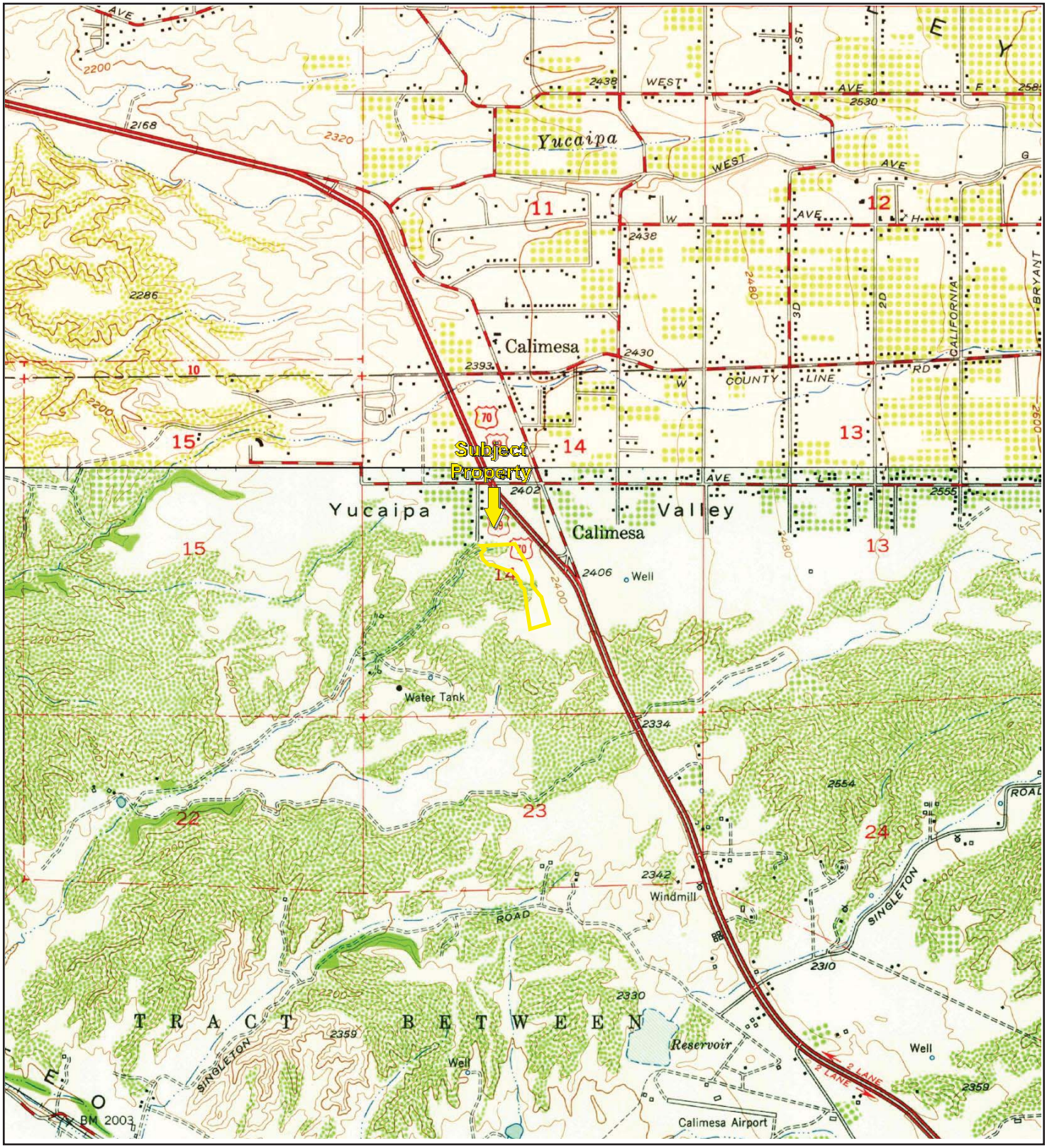


TP, PERRIS, 1943, 15-minute

0 Miles 0.25 0.5 1 1.5

N

Key: Subject Property



TP, El Casco, 1953, 7.5-minute
N, Yucaipa, 1954, 7.5-minute

0 Miles 0.25 0.5 1 1.5

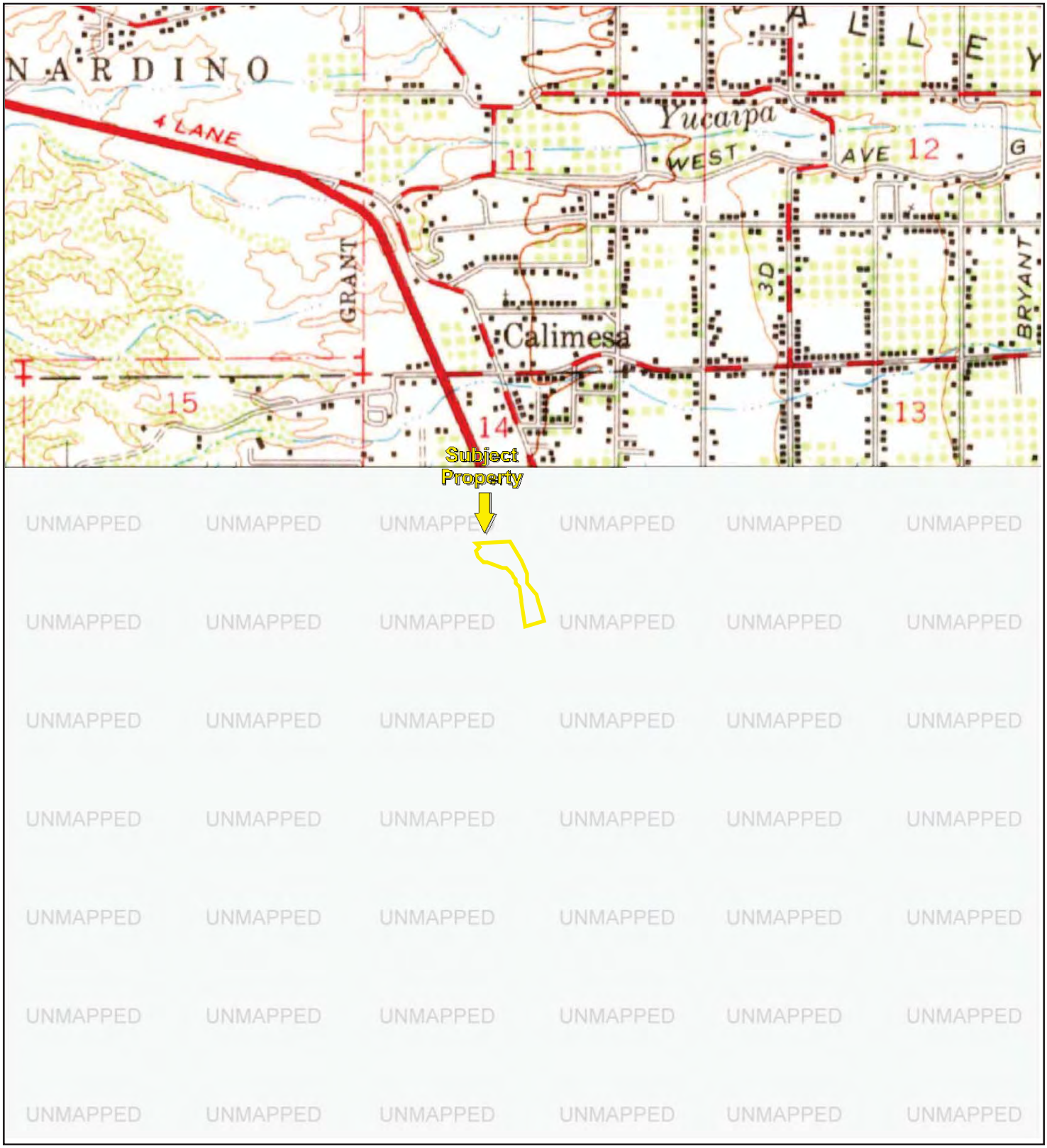
N

Key: Subject Property

APPENDIX B: Topographic Maps

Project No. 21-306420.2

PARTNER

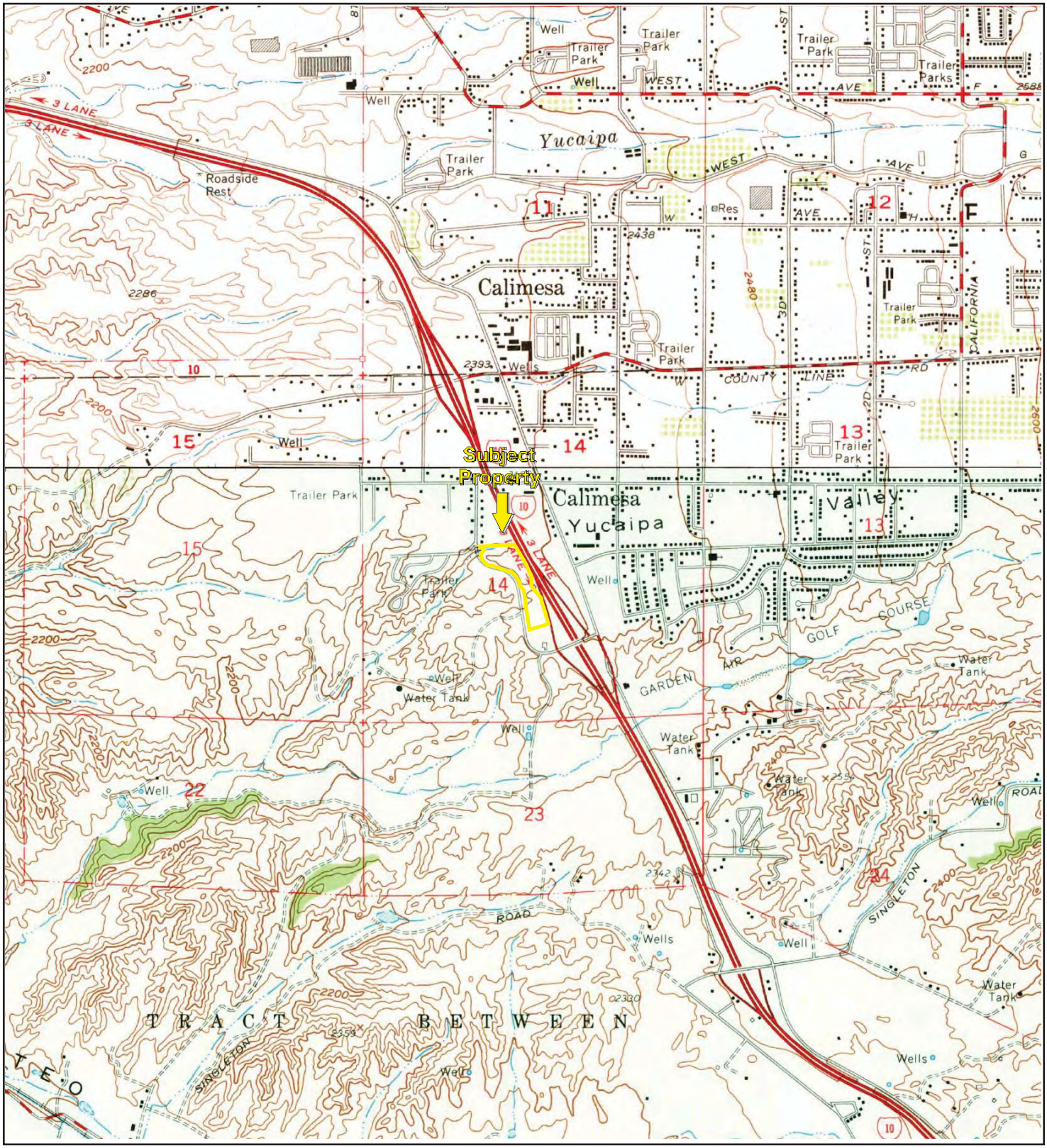


N, Redlands, 1954, 15-minute

0 Miles 0.25 0.5 1 1.5

N

Key: Subject Property



TP, El Casco, 1967, 7.5-minute
N, Yucaipa, 1967, 7.5-minute

0 Miles 0.25 0.5 1 1.5

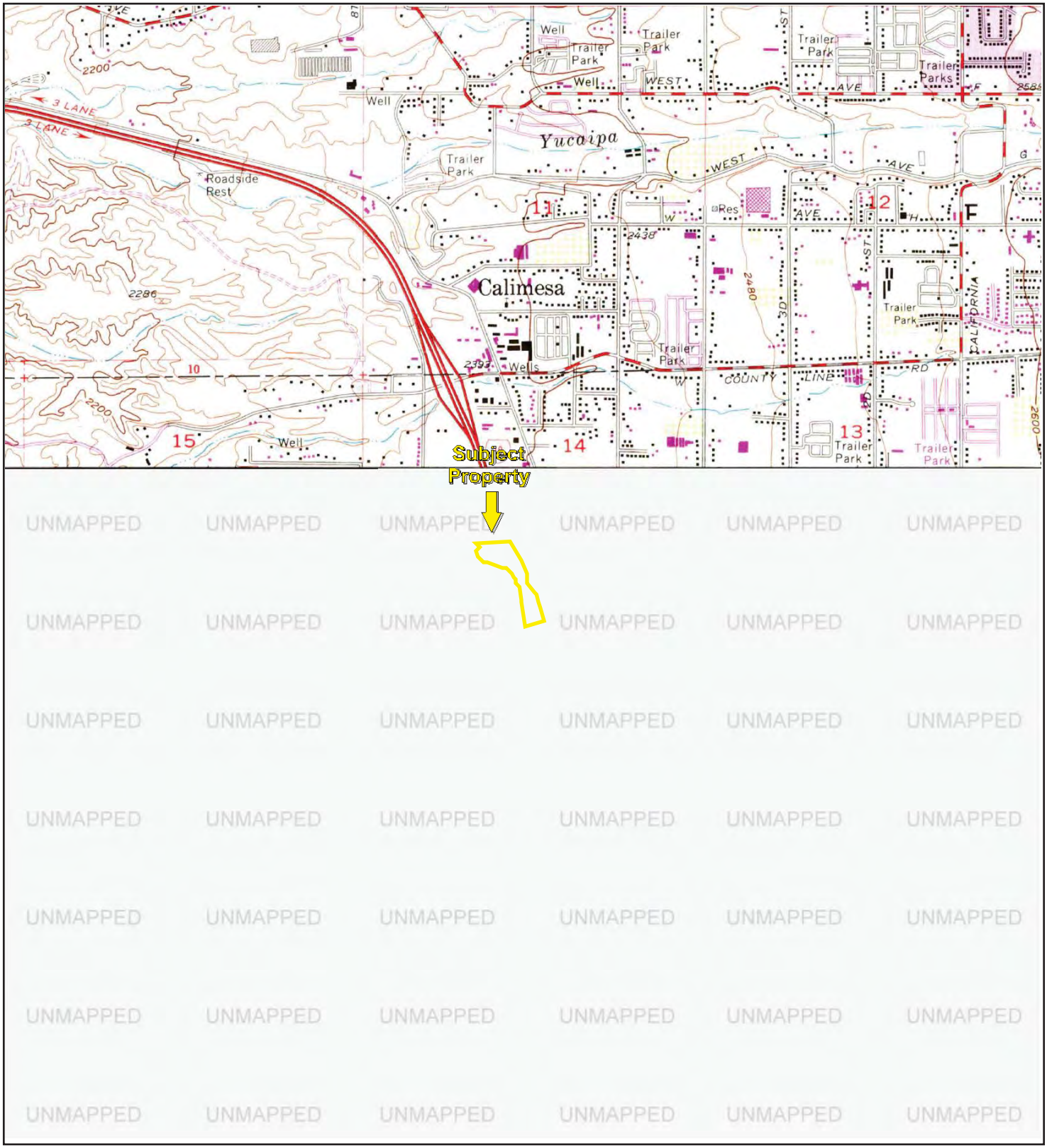
N

Key: Subject Property

APPENDIX B: Topographic Maps

Project No. 21-306420.2

PARTNER



N, Yucaipa, 1973, 7.5-minute

0 Miles 0.25 0.5 1 1.5

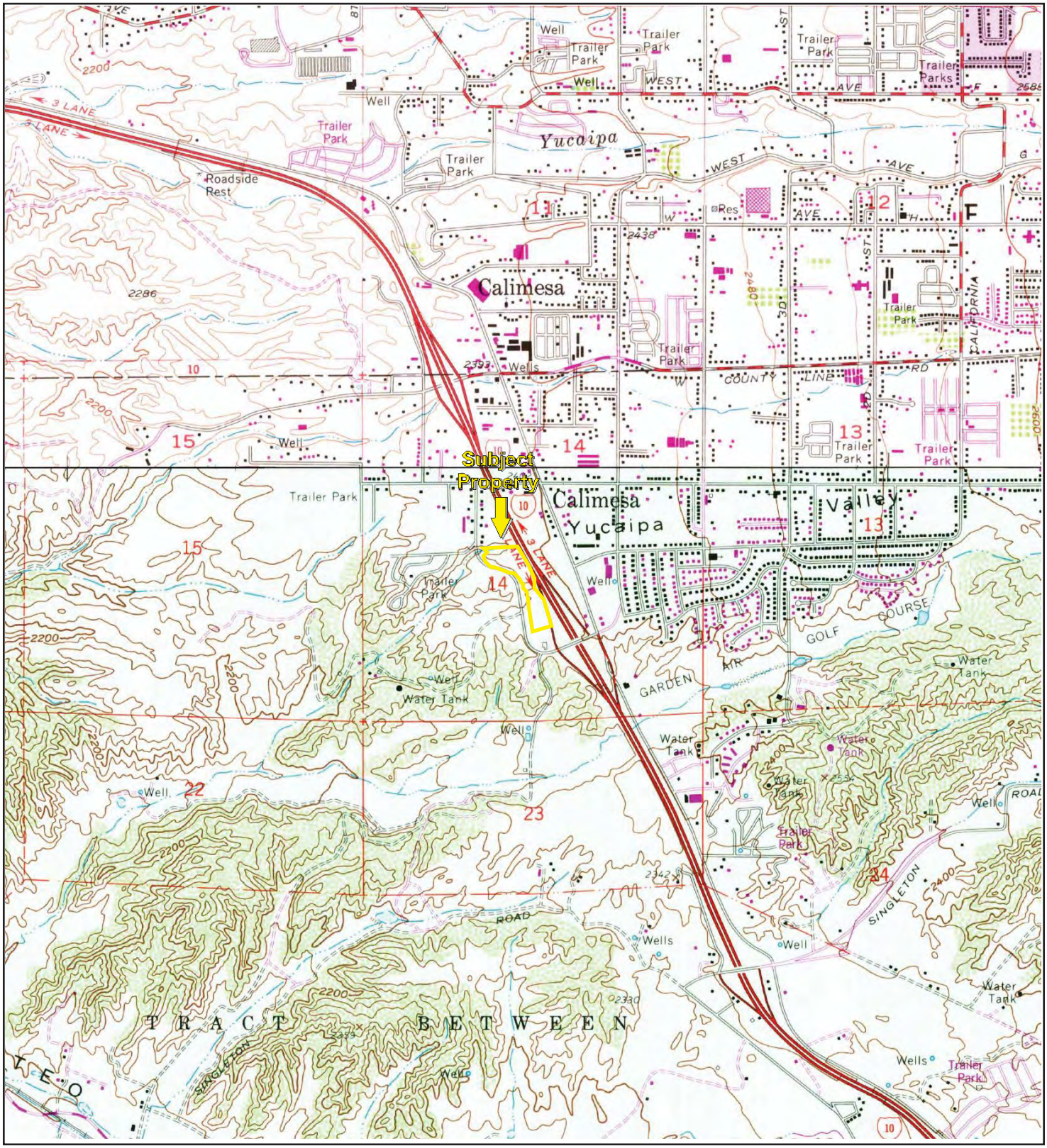
N

Key: Subject Property

APPENDIX B: Topographic Maps

Project No. 21-306420.2

PARTNER



TP, El Casco, 1979, 7.5-minute
N, Yucaipa, 1980, 7.5-minute

0 Miles 0.25 0.5 1 1.5

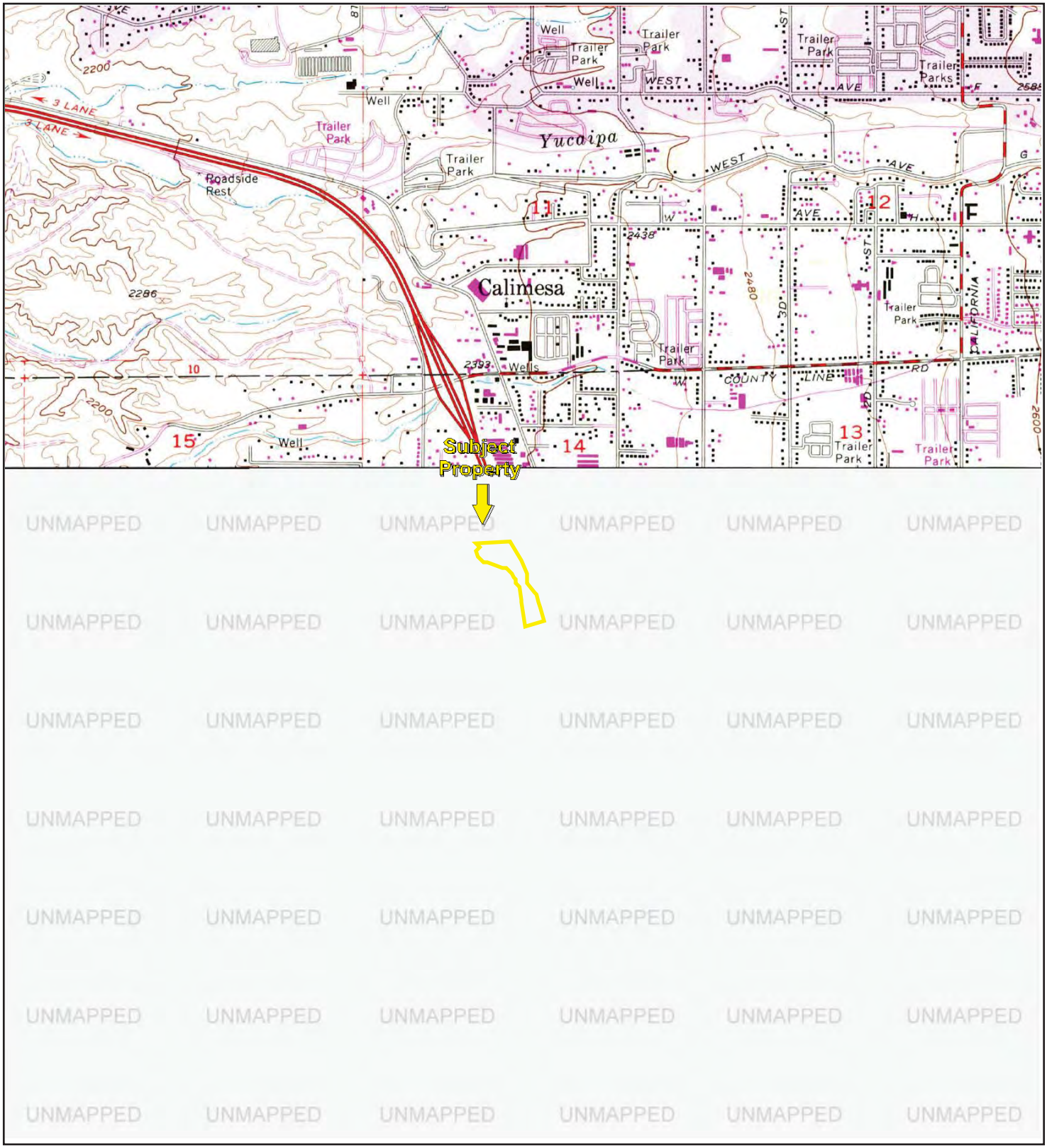
N

Key: Subject Property

APPENDIX B: Topographic Maps

Project No. 21-306420.2

PARTNER



N, Yucaipa, 1988, 7.5-minute

0 Miles 0.25 0.5 1 1.5

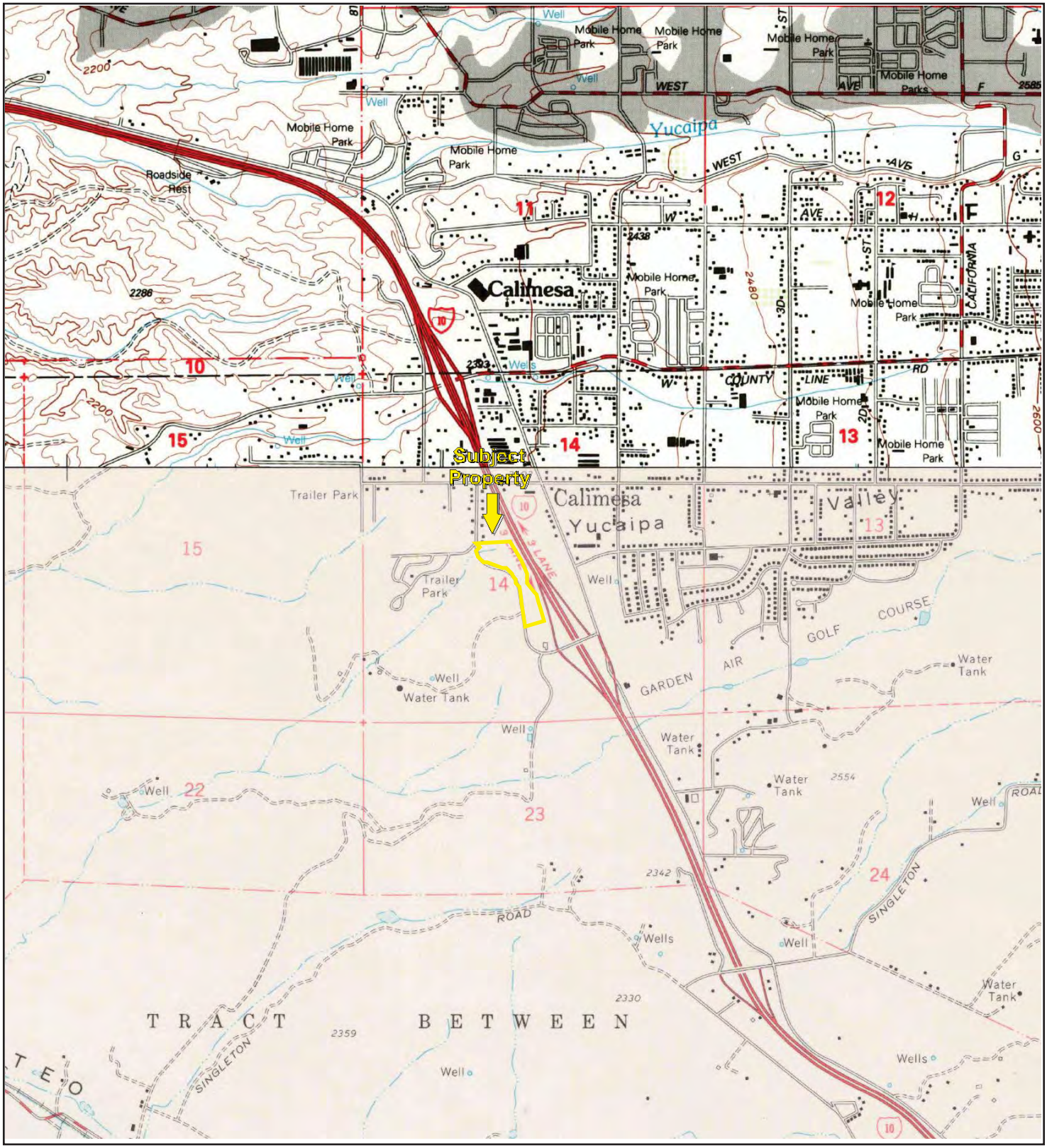
N

Key: Subject Property

APPENDIX B: Topographic Maps

Project No. 21-306420.2

PARTNER



TP, El Casco, 1996, 7.5-minute
N, Yucaipa, 1996, 7.5-minute

0 Miles 0.25 0.5 1 1.5

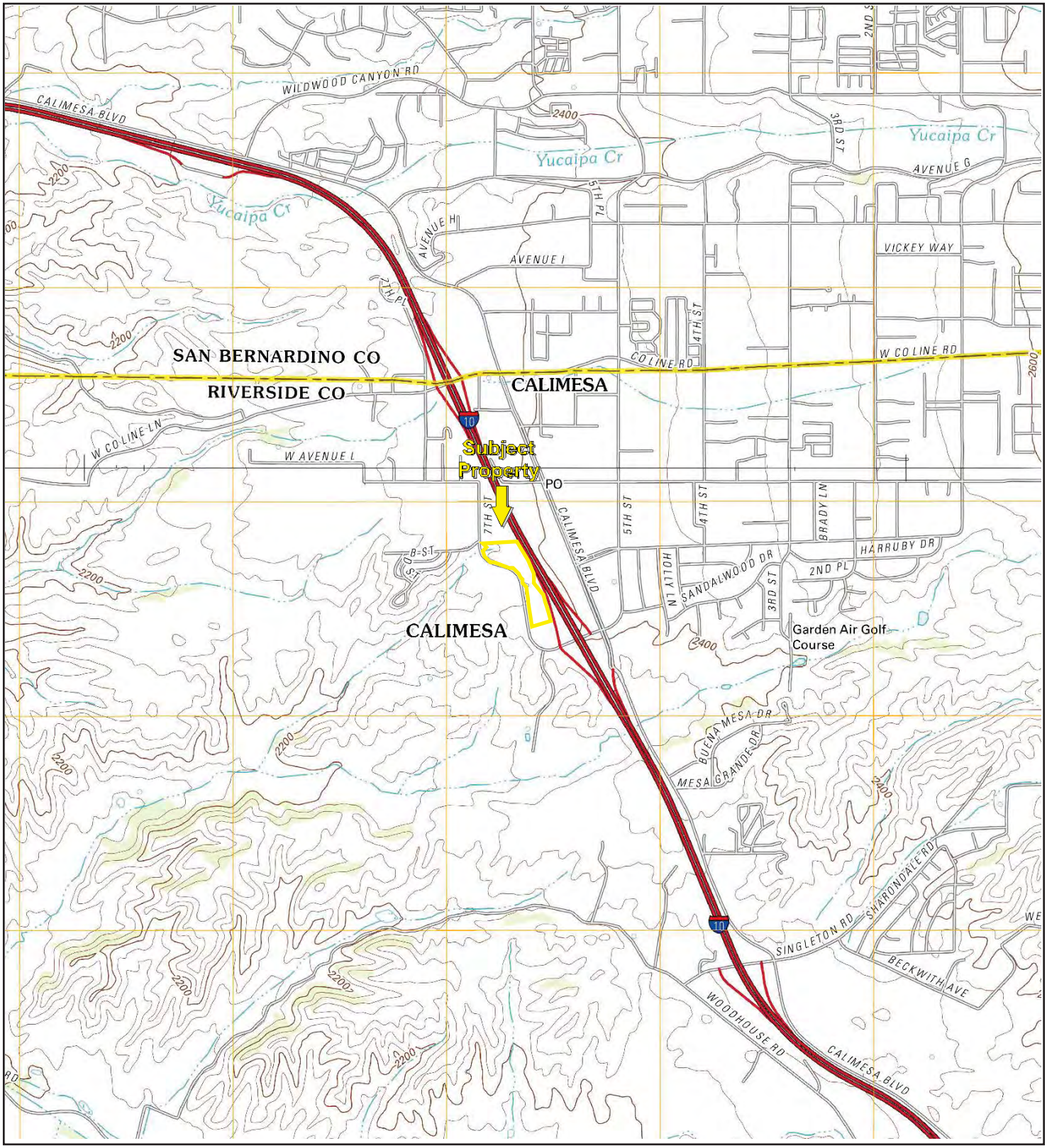
N

Key: Subject Property

APPENDIX B: Topographic Maps

Project No. 21-306420.2

PARTNER



TP, El Casco, 2012, 7.5-minute
N, Yucaipa, 2012, 7.5-minute

0 Miles 0.25 0.5 1 1.5

N

Key: Subject Property

APPENDIX B: Topographic Maps

Project No. 21-306420.2

PARTNER

APN 411-210-024 and 411-210-006

APN 411-210-024 and 411-210-006
CALIMESA, CA 92320

Inquiry Number: 6342496.5
January 29, 2021

The EDR-City Directory Image Report

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

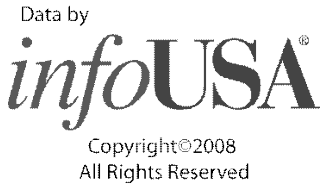
DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	Target Street	Cross Street	Source
2017	☐	☑	EDR Digital Archive
2014	☐	☑	EDR Digital Archive
2010	☐	☑	EDR Digital Archive
2005	☐	☑	EDR Digital Archive
2000	☐	☑	EDR Digital Archive
1995	☐	☑	EDR Digital Archive
1992	☐	☑	EDR Digital Archive
1985	☐	☑	Haines Criss-Cross Directory
1980	☐	☑	Haines Criss-Cross Directory
1974	☐	☑	Haines Criss-Cross Directory
1971	☐	☑	Haines Criss-Cross Directory

FINDINGS

TARGET PROPERTY STREET

APN 411-210-024 and 411-210-006
CALIMESA, CA 92320

No Addresses Found

FINDINGS

CROSS STREETS

Year	*CD Image*	*Source*
7TH ST		
2017	pg. A1	EDR Digital Archive
2014	pg. A2	EDR Digital Archive
2010	pg. A3	EDR Digital Archive
2005	pg. A4	EDR Digital Archive
2000	pg. A5	EDR Digital Archive
1995	pg. A6	EDR Digital Archive
1992	pg. A7	EDR Digital Archive
1985	pg. A8	Haines Criss-Cross Directory
1980	pg. A9	Haines Criss-Cross Directory
1974	pg. A10	Haines Criss-Cross Directory
1971	pg. A11	Haines Criss-Cross Directory

City Directory Images

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

7TH ST 2017

1071 STUART, ROBERT
1078 SHOFFEITT, RICHARD P
1079 PRECIADO, MARCELINO B
1088 SHACKLE, DIANE E
1089 JOHNSON, SUSAN S
1091 DIGITAL INK DESIGN & PRINT
1100 JORRITSMA, GEORGE L
1111 GANDOLFI, TRICIA M
1116 SHEAFER, BRIAN S
1117 GUTIERREZ, JINA
1118 SNEAD, LYNN L
1199 JACK IN THE BOX

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

7TH ST 2014

1071	STUART, ROBERT L
1078	SHOFFEITT, RICHARD P
1079	PRECIADO, SANTIAGO P
1088	SHACKLE, DIANE E
1089	ESTERLEY, GEORGE R
1091	DESSEIN INC
1100	JORRITSMA, GEORGE L
1111	WINSLOW, JENNIFER
1115	OCCUPANT UNKNOWN,
1116	OCCUPANT UNKNOWN,
1117	OCCUPANT UNKNOWN,
1118	SNEAD, LYNN L
1199	JACK IN THE BOX

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

7TH ST 2010

1071 STUART, ASHLEY
1078 OCCUPANT UNKNOWN,
1079 PRECIADO, SANTIAGO P
1088 HANSON, EVELYN E
1089 ESTERLEY, GEORGE R
1091 CONSOLIDATED ELECTRICAL DISTR
DAVIS CO
ESPWW INC
NEON CONTROLS RVF CO
1100 JORRITSMA, GEORGE L
1111 NIEWENHUIS, KARA
OCCUPANT UNKNOWN,
1115 BROTEN, ROBERT R
1116 SHEAFER VENTURES
SHEAFER, BRIAN S
1117 PATEL, VIMALA
1118 MOONSTRUCK
SNEAD, LYNN L
1199 JACK IN THE BOX

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

7TH ST 2005

1024 NELSON, FRANCIS A
1071 STUART MANUFACTURING
STUART, GREGORY B
1078 SHOFFEITT, RICHARD P
1079 PRECIADO, SANTIAGO P
1088 HANSON, EVELYN E
1089 REINA, GEORGE
1091 3D DETAIL SUPPLUES OF P S
CUSTOM COATINGS
ULTRA ENVIRONMENTAL WATER PRODUCT
ULTRA ENVRNMNTL WATER PRDCT
WARD INDUSTRIES / 3D
WASHER INDUISTRY PARTS
1100 HOLLANDIA FARMS NURSERY & GREEN HO
JORRITSMA, GEORGE L
1111 KERR, DEBRA
WIERS, MATT
1115 MILLER, GREG P
1116 SHEAFER VENTURES
SHEAFER, BRIAN S
1117 OCCUPANT UNKNOWN,
1118 MOONSTRUCK
SNEAD, LYNN L
1199 JACK IN THE BOX

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

7TH ST 2000

1020	OCCUPANT UNKNOWN,
1024	OCCUPANT UNKNOWN,
1071	STUART, ROBERT L
1078	OCCUPANT UNKNOWN,
1079	PRESIADO, DELIA B
1088	SHACKLE, DIANE E
1089	JOHNSON, SUSAN
1091	LOOYSEN, GENE
1100	HOLLANDIA FARMS NURSERY & GREEN HOUSES
	JORRITSMA, GEORGE
1105	SCHULTZ, RUTH
1111	MORALES, ARTHUR
1115	DONEY, C
1117	JONES, JOSHUA

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

7TH ST 1995

1100	HOLLANDIA FARMS NURSERY
	JORRITSMA, GEORGE
1105	COLEMAN, PAT M
	DIMENSIONAL LETTERS & SIGNS
	WATERMARK LETTERS & SIGNS
1111	TERPSTRA, C
1115	DONEY, C
1116	OCCUPANT UNKNOWNN
1117	ROMAN, FRANK
1118	SNEAD, JERRY D

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

7TH ST 1992

1012 MAGIE, L
1020 LOVELACE, A W
1078 SHOFFEITT, RICHARD
1079 PRESIADO, DELIA B
1100 HOLLANDIA FARMS
JORRITSMA, GEORGE
1105 WATERMARK LETTR&SGN
1111 PALMER, JAMES
SHUNK, SHANNON
1115 DONEY, C
1118 SNEAD, JERRY D

Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

7TH ST 1985

7TH 92320 CALIMESA

946	XXXX	00	
990	LINGFORD ROBT E	795-1751	8
991	MCENROE PATRICK	795-2790	7
1002	LAVELL CHAS	795-7031	3
1012	MAGIE ALLAN R	795-5525	
1016	RUDIE J M	795-3200	6
1018	SCHULZ RICHARD E	795-4208	7
1020	LOVELACE A W	795-5787	
1021	XXXX	00	
1024	MCGUERN WM F	795-5262	
1071	**STUARTS WELDING**	**795-4572**	8
1078	SHOFFEITT RICHARD	795-4655	
1079	LAVELL CLARENCE	795-5476	3
1088	HANSON MAYNARD	795-1848	
1091	LOOYSEN GENE	795-6836	8
1100	**CALIMESA WHSL NRSRY**	**795-2217**	0
	HOLLANDIA FRM NRSRY	**795-2217**	6
	JORRITSMA GEO	795-5533	
1111	BORDELEAU DANIELLE	795-8693	4
	WEBB STANLEY G	795-4975	3
	WISDOM KIRK	795-1435	6
1115	RODRIGUEZ ROBT	795-6333	0
1116	WEDGE ARTHUR J	795-1345	
1117	ROMAN FRANK	795-3696	9
1118	SNEAD JERRY D	795-3870	8

* 3 BUS 22 RES 0 NEW

Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

7TH ST 1980

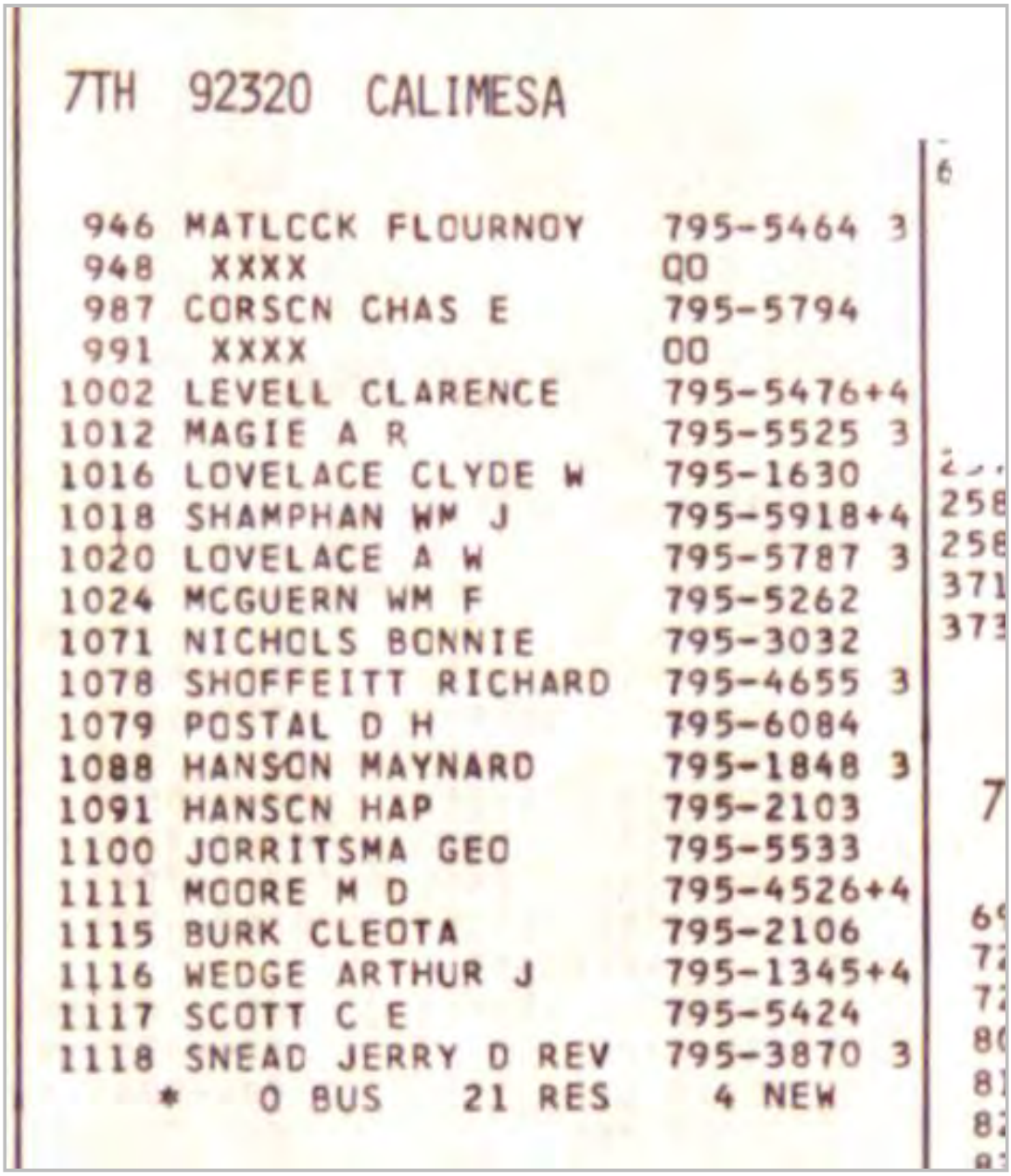


7TH 92320 CALIMESA

946	XXXX	00	
948	XXXX	00	
987	ROBBINS LAWRENCE L	795-4372	7
990	LINGFORD ROBT	795-1751	8
991	MCENROE PATRICK	795-2790	7
994	WHITE LANSING B	795-4738	8
1002	LAVELL CLARENCE	795-5476	5
1012	MAGIE A R	795-5525	3
1016	RUDIE J M	795-3200	6
1018	SCHULZ RICHARD E	795-4208	7
1020	LOVELACE A W	795-5787	3
1021	LINN WALTER	795-3445	9
1024	MCGUERN RUSSELL	795-6510	9
	MCGUERN WM F	795-5262	
1071★	**STUARTS WELDING**	**795-4572**	8
1078	SHOFFEITT RICHARD	795-4655	3
1079	POSTAL D H	795-6084	
1088	HANSON MAYNARD	795-1848	3
1091	LOOYSEN GENE	795-6836	8
1100★	**CALIMESA WHSL NURSR**	**795-2217**	+0
★	**HOLLANDIA FRM NRSRY**	**795-2217**	6
	JORRITSMA GEO	795-5533	
1111	WISDOM KIRK	795-1435	6
	WISDOM KIRK B	795-6234	+0
1115	RODRIGUEZ ROBT	795-6333	+0
1116	WEDGE ARTHUR J	795-1345	4
1117	ROMAN FRANK	795-3696	9
1118	SNEAD JERRY D	795-3870	8
★	3 BUS 25 RES	3 NEW	

Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

7TH ST 1974



7TH 92320 CALIMESA

946	MATLCCK FLOURNOY	795-5464	3
948	XXXX	QO	
987	CORSCN CHAS E	795-5794	
991	XXXX	OO	
1002	LEVELL CLARENCE	795-5476+4	
1012	MAGIE A R	795-5525	3
1016	LOVELACE CLYDE W	795-1630	
1018	SHAMPHAN WM J	795-5918+4	
1020	LOVELACE A W	795-5787	3
1024	MCGUERN WM F	795-5262	
1071	NICHOLS BONNIE	795-3032	
1078	SHOFFEITT RICHARD	795-4655	3
1079	POSTAL D H	795-6084	
1088	HANSON MAYNARD	795-1848	3
1091	HANSCN HAP	795-2103	
1100	JORRITSMA GEO	795-5533	
1111	MOORE M D	795-4526+4	
1115	BURK CLEOTA	795-2106	
1116	WEDGE ARTHUR J	795-1345+4	
1117	SCOTT C E	795-5424	
1118	SNEAD JERRY D REV	795-3870	3

* 0 BUS 21 RES 4 NEW

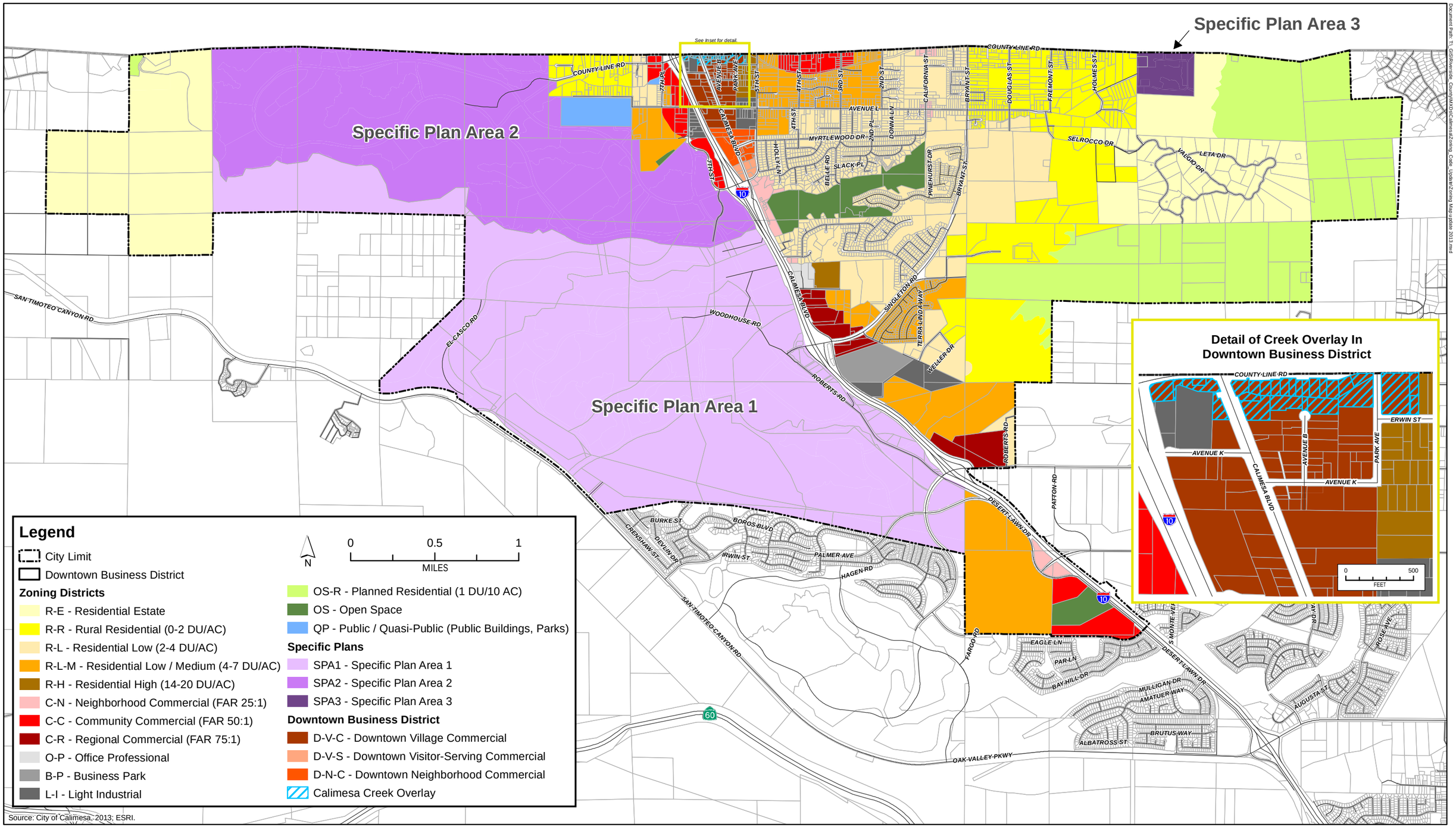
Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

7TH ST 1971

7TH 92320 CALIMESA

948	PAISLEY O	795-4727
987	CORSON CHAS E	795-5794
991	TAACK ROBT	795-3680
1016	LOVELACE CLYDE W	795-1630
1024	MCGUERN WM F	795-5262
1071	NICHOLS BONNIE	795-3032
1079	POSTAL O H	795-6084
1091	HANSON HAP	795-2103
1100	JORRITSMA GEO	795-5533
1115	BURK CLEOTA	795-2106
1117	SCOTT C E	795-5424

* O BUS 11 RES



Calimesa Zoning Districts Update 2014

National Flood Hazard Layer FIRMette

FEMA

117°3'56"W 33°59'51"N



117°3'18"W 33°59'21"N

Feet 1:6,000

0 250 500 1,000 1,500 2,000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 2/2/2021 at 9:33 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

THIS MAP WAS PREPARED FOR ASSESSMENT PURPOSES ONLY. NO LIABILITY IS ASSUMED FOR THE ACCURACY OF THE DATA SHOWN. ASSESSOR'S PARCEL MAY NOT COMPLY WITH LOCAL LOT-SPLIT OR BUILDING SITE ORDINANCES.

SEC. 14 T2SR2W

CITY OF CALIMESA

TRA 022-040
022-026
022-052

411-21

N
W E
S

1 " = 400 '

Legend
- Lot Lines
- Right-Of-Way
- Old Lot Lines
- Reference R.O.W
- Other Easements
- Lease Area
- Subdivision Tic Mark

06

24
9.33 AC ML

235.10
73.75
145.22
96.59
334.44
209.55
200.64
140.19
170.50
L=273.69
157.88
73.32
200.25
35.77
170.07
136.57
59895 6/63
375.68
L=297.63
178.14
306.50
316.37
PM 196/48
128.38
PAR 1
329.36
193.37
232.76
140
168.28
59.16
34.75
L=213.74
122.35
101.47
67.46
L=174.44
39.51
L=229.94
128238.63
135.96
L=475.15
44.09
221.56
L=149.14
1117.23
PM 221/56
59895 6/63
N43-11-46W 426.44
N45-49-52W 334.86
242.20
296.82

STATE HWY

FRONTAGE RD

DR

BROOK

SHADY

TRA 022-026

TRA 022-040

TRA 022-026
TRA 022-052

10

POR PAR 9
10
15.14 AC ML

02
22.55 AC ML

247 ML
20506 11/80
56689 5/71
S87-43-45W 1476.91
S02-16-15E 1000
S45-27-20W 1402.61
N87-43-45E 420
173013 9/80
PM 221/56
2611 ML

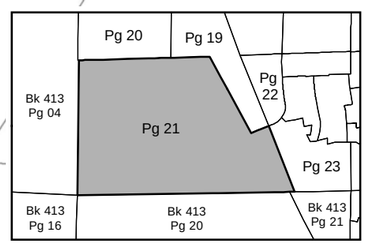
25
26
27
1.23 AC

POR PAR 9
28
126.86 AC ML

2654.45 ML

15 14
22 23

Data
STATE HWY MAP V111-26-A, SEE FILE A
(64764 9/58)
PM 209/31-38



Map Reference
PM 196/48 - 50 PARCEL MAP NO 29252
PM 221/56 - 64 PARCEL MAP NO 31922 AMENDED

Date	Old Number	New Number
7/1/1975	1,4	16,17
9/1/1978	14	18,19
9/1/1978	19	20,21
3/1/1980	7	22,ST
3/1/1999	8,9	23
9/1/2000	22	24,25
3/1/2001	23	26,27
11/15/2005	3,5,16,17	28
9/30/2008	13	29-30
9/30/2008	20	31-33
9/30/2008	29,31	34
12/1/2010	30, 32	35
12/1/2010	35	190-42,43,44
12/1/2010	33	190-47
12/1/2010	34	190-48
12/1/2010	15	190-49
12/1/2010	18	190-50
12/1/2010	21	190-51

ASSESSOR'S MAP BK411 PG.21
Riverside County, Calif.

MHillig

December 2010

Riverside County Parcel Report

APN(s):411210024,411210006

DISCLAIMER

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MAPS/IMAGES



PARCEL

APN	411-210-006-9, 411-210-024-5	Supervisorial District	JEFF HEWITT, DISTRICT 5
Previous APN	411210006 411210024 411210022	Township/Range	T2SR2W SEC 14 S
Owner Name	NOT AVAILABLE ONLINE	Elevation	2382 ft
Address		Thomas Bros. Map Page/Grid	PAGE: 689, GRID: G1 PAGE: 689, GRID: H1
Mailing Address	411210006 232 SUMMIT AVE REDLANDS CA 92373 411210024 232 SUMMIT AVE REDLANDS CA 92373	Indian Tribal Land	NOT IN A TRIBAL LAND

Legal Description	411210006 Recorded Book/Page: / Subdivsion Name: Lot/Parcel: Block: Tract Number: 411210024 Recorded Book/Page: / Subdivsion Name: Lot/Parcel: Block: Tract Number:	City Boundary	CALIMESA
		City Spheres of influence	NOT IN A CITY SPHERE
Lot Size	411210006 Recorded lot size is 0.23 acres 411210024 Recorded lot size is 9.33 acres	March Joint Powers Authority	NOT IN THE JURISDICTION OF THE MARCH JOINT POWERS AUTHORITY
Property Characteristcs	411210006 Year Constructed: Baths: Bedrooms: Construction Type: Garage Type: Property Area (sq ft): Roof Type: Stories: Pool: NO Central Cool: NO Central Heat: NO 411210024 Year Constructed: Baths: Bedrooms: Construction Type: Garage Type: Property Area (sq ft): Roof Type: Stories: Pool: NO Central Cool: NO Central Heat: NO	County Service Area	NOT IN A COUNTY SERVICE AREA
Annexation Date	90-02-5 03/08/1991	LAFCO Case	90-02-5 03/08/1991
Proposals	N/A		

PLANNING more...

Specific Plans	NOT IN A SPECIFIC PLAN	Historic Preservation Districts	NOT IN A HISTORIC PRESERVATION DISTRICT

Land Use Designations	CITY	Agricultural Preserve	NOT IN AN AGRICULTRAL PRESERVE
General Plan Policy Overlays	N/A		
Area Plan (RCIP)	The Pass	Airport Influence Areas	NOT IN AN AIRPORT INFLUENCE AREA
General Plan Policy Areas	NOT IN A GENERAL PLAN POLICY AREA	Airport Compatibility Zones	NOT IN AN AIRPORT COMPATIBLITY AREA
Zoning Classifications (ORD. 348)	CHECK WITH THE CITY FOR MORE INFORMATION	Zoning Districts and Zoning Areas	NOT IN A ZONING DISTRICT/AREA
Zoning Overlays	NOT IN A ZONING OVERLAY	Community Advisory Councils	NOT IN A COMMUNITY ADVISORY COUNCIL

Residential Permit Stats

N/A

ENVIRONMENTAL more...

CVMSHCP (Coachella Valley Multi-Species Habitat Conservation Plan) Plan Area	NOT IN A COACHELLA VALLEY MSHCP FEE AREA	WRMSHCP (Western Riverside County Multi-Species Habitat Conservation Plan) Cell Group	NOT IN A CELL GROUP
CVMSHCP (Coachella Valley Multi-Species Habitat Conservation Plan) Conservation Area	NOT COACHELLA VALLEY CONSERVATION AREA	WRMSHCP Cell Number	323
CVMSHCP Fluvial Sand Transport Special Provision Areas	NOT IN A FLUVIAL SAND TRANSPORT SPECIAL PROVISION AREA	HANS/ERP (Habitat Acquisition and Negotiation Strategy/Expedited Review Process)	NOT IN A HANS/ERP PROJECT
WRMSHCP (Western Riverside County Multi-Species Habitat Conservation Plan) Plan Area	WESTERN RIVERSIDE COUNTY	Vegetation (2005)	AGRICULTURE MAPPING UNIT COAST LIVE OAK / CHAPARRAL ASSOCIATION URBAN OR DEVELOPMENT MAPPING UNIT WILLOW MAPPING UNIT

Fire

Fire Hazard Classification (Ord. 787)	NOT IN A FIRE HAZARD ZONE	Fire Responsibility Area	NOT IN A FIRE RESPONSIBILITY AREA

DEVELOPMENT FEES

CVMSHCP (Coachella Valley Multi-Species Habitat Conservation Plan) Fee Area (Ord 875)	NOT IN A COACHELLA VALLEY MSHCP FEE AREA	RBBD (Road & Bridge Benefit District)	NOT IN A ROAD BRIDGE BENEFIT DISTRICT
WRMSHCP (Western Riverside County Multi-Species Habitat Conservation Plan) Fee Area (Ord. 810)	WESTERN RIVERSIDE COUNTY	DIF (Development Impact Fee Area Ord. 659)	THE PASS, AREA 20
Western TUMF (Transportation Uniform Mitigation Fee Ord. 824)	IN OR PARTIALLY WITHIN A TUMF FEE AREA	SKR Fee Area (Stephenâ€™s Kagaroo Rat Ord. 663.10)	NOT IN THE SKR FEE AREA
Eastern TUMF (Transportation Uniform Mitigation Fee Ord. 673)	NOT IN THE EASTERN TUMF FEE AREA	DA (Development Agreements)	NOT IN A DEVELOPMENT AGREEMENT

TRANSPORTATION more...

Circulation Element Ultimate Right-of-Way	IN OR PARTIALLY WITHIN A CIRCULATION ELEMENT RIGHT-OF-WAY	Road Book Page	88
		Transportation Agreements	NOT IN A TRANS AGREEMENT

CETAP (Community and Environmental Transportation Acceptability Process) Corridors	NOT IN A CETAP CORRIDOR

HYDROLOGY

Flood Plan Review	OUTSIDE FLOODPLAIN, REVIEW NOT REQUIRED	Watershed	SANTA ANA RIVER
Water District	SAN GORGONIO PASS WATER DISTRICT		
Flood Control District	RIVERSIDE COUNTY FLOOD CONTROL DISTRICT		

GEOLOGIC

Fault Zone	NOT IN A FAULT ZONE	Paleontological Sensitivity	HIGH SENSITIVITY (HIGH A): BASED ON GEOLOGIC FORMATIONS OR MAPPABLE ROCK UNITS THAT ARE ROCKS THAT CONTAIN FOSSILIZED BODY ELEMENTS, AND TRACE FOSSILS SUCH AS TRACKS, NESTS AND EGGS. THESE FOSSILS OCCUR ON OR BELOW THE SURFACE
Faults	NOT IN A FAULT LINE		
Liquefaction Potential	LOW		
Subsidence	SUSCEPTIBLE		

MISCELLANEOUS

School District	YUCAIPA CALIMESA JOINT UNIFIED
Communities	CALIMESA
Lighting (Ord. 655)	NOT IN A PALOMAR OBSERVATORY ZONE
2010 Census Tract	438.02
Farmland	LOCAL IMPORTANCE URBAN-BUILT UP LAND
Special Notes	NO SPECIAL NOTES
Tax Rate Areas	022040 - CALIMESA CITY FIRE 022040 - CITY OF CALIMESA 022040 - CO FREE LIBRARY 022040 - FLOOD CONTROL ADMIN 022040 - FLOOD CONTROL ZN 5 022040 - GENERAL 022040 - GENERAL PURPOSE 022040 - INLAND EMPIRE JT(33,36)RES 022040 - RDV PROJ 5-CALIMESA 022040 - RIV CO REGIONAL PARK & OPEN SP 022040 - RIVERSIDE CO OFC OF EDUCATION 022040 - SAN BERNARDINO VLY COM COLLEGE 022040 - SAN GORGONIO PASS WTR AGENCY DS 022040 - SUMMIT CEMETERY DISTRICT 022040 - YUCAIPA UNIFIED B&I 022040 - YUCAIPA UNIFIED SCHOOL 022040 - YUCAIPA UNIFIED STATE REPAYMENT 022040 - YUCAIPA VALLEY CO WTR 022040 - YUCAIPA VALLEY CO WTR IMP 1 022040 - YUCAIPA VALLEY CO WTR IMP 1 DS

Department of Enviromental Health Permits

Septic Permits

Record Id	Application Date	Plan Check Approved Date	Final Inspection Date	Approved Date
N/A	N/A	N/A	N/A	N/A

Well Water Permits

Record Id	PE	Permit Paid Date	Permit Approved Date	Well Finaled Date

N/A	N/A	N/A	N/A	N/A
Septic Permits				

PLUS PERMITS & CASES

Administrative Cases

Case		Case Description	Status
N/A	N/A		N/A

Building and Safety Cases

Case		Case Description	Status
N/A	N/A		N/A

Code Cases

Case		Case Description	Status
N/A	N/A		N/A

Fire Cases

Case		Case Description	Status
N/A	N/A		N/A

Planning Cases

Case	Case Description	Status
CUP02280		EXPIRED

Survey Cases

Case		Case Description	Status
N/A	N/A		N/A

Transportation Cases

Case		Case Description	Status
N/A	N/A		N/A

U.S. Fish and Wildlife Service
National Wetlands Inventory

Wetlands



February 2, 2021

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

APPENDIX C: REGULATORY DATABASE REPORT

PARTNER

APN 411-210-024 and 411-210-006
APN 411-210-024 and 411-210-006
CALIMESA, CA 92320

Inquiry Number: 6342496.2s
January 26, 2021

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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GEOCHECK ADDENDUM

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

APN 411-210-024 AND 411-210-006
CALIMESA, CA 92320

COORDINATES

Latitude (North):	33.9955960 - 33° 59' 44.14''
Longitude (West):	117.0610680 - 117° 3' 39.84''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	494360.1
UTM Y (Meters):	3761475.0
Elevation:	2371 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5640934 EL CASCO, CA
Version Date:	2012
North Map:	5630639 YUCAIPA, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140530
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
APN 411-210-024 AND 411-210-006
CALIMESA, CA 92320

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	WALGREENS #10366	1186 CALIMESA BLVD	RCRA-VSQG	Higher	565, 0.107, ESE
A2	WALGREENS #10366	1186 CALIMESA BLVD	CERS HAZ WASTE, HAZNET, CERS, HWTS	Higher	565, 0.107, ESE
A3	COUNTY CORK WINE & S	1190 CALIMESA BLVD	EDR Hist Auto	Higher	586, 0.111, ESE
B4	COUNTY CORK LIQUOR	1198 CALIMESA BLVD	LUST, SWEEPS UST, HIST CORTESE	Higher	605, 0.115, ESE
B5	SULLIVAN JIM AND JIL	1198 CALIMESA ST	EDR Hist Auto	Higher	605, 0.115, ESE
B6	COUNTY CORK BUSINESS	1198 CALIMESA BLVD	LUST, HIST UST, Cortese, CERS	Higher	605, 0.115, ESE
B7	ARCO #1958	1216 CALIMESA BLVD	LUST, UST, SWEEPS UST	Higher	652, 0.123, SE
B8	GOPAL KRISHNA CO INC	1216 CALIMESA	RCRA NonGen / NLR	Higher	652, 0.123, SE
B9	ARCO CALIMESA #1958	1216 CALIMESA BLVD.	LUST, CERS HAZ WASTE, CERS TANKS, Cortese, Notify...	Higher	652, 0.123, SE
B10	ZIERT MIKE	1216 CALIMICA BLVD	EDR Hist Auto	Higher	652, 0.123, SE
B11	JAMES OLIVER HYATT	1216 CALIMESA BLVD	HIST UST	Higher	652, 0.123, SE
C12	DOLLAR TREE #7259	1126 CALIMESA BLVD	CERS HAZ WASTE, HAZNET, CERS, HWTS	Higher	687, 0.130, NNE
C13	DOLLAR TREE 07259	1126 CALIMESA BLVD	RCRA NonGen / NLR	Higher	687, 0.130, NNE
A14	STATER BROS MARKETS	1155 CALIMESA BLVD	RCRA NonGen / NLR	Higher	731, 0.138, East
A15	STATER BROS MARKETS	1155 CALIMESA BLVD	CERS HAZ WASTE, HAZNET, CERS, HWTS	Higher	731, 0.138, East
C16	TRACTOR SUPPLY COMPA	1060 CALIMESA BLVD	RCRA NonGen / NLR	Higher	742, 0.141, NE
C17	TRACTOR SUPPLY COMPA	1060 CALIMESA BLVD	CERS HAZ WASTE, HAZNET, NPDES, CIWQS, CERS, HWTS	Higher	742, 0.141, NE
C18	AUTOZONE #4379	1095 CALIMESA BLVD	CERS HAZ WASTE, NPDES, CERS	Higher	811, 0.154, NE
C19	AUTOZONE #4379	1095 CALIMESA BLVD	RCRA NonGen / NLR	Higher	811, 0.154, NE
B20	SABA PARTNERS INC DB	1213 CALIMESA BLVD	RCRA NonGen / NLR	Higher	822, 0.156, ESE
B21	SHELL SERVICE STATIO	1213 CALIMESA BLVD	SWEEPS UST, RCRA NonGen / NLR, FINDS, ECHO,...	Higher	822, 0.156, ESE
B22	CALIMESA SHELL	1213 CALIMESA BLVD	UST	Higher	822, 0.156, ESE
B23	SHELL #1213	1213 CALIMESA BLVD	LUST, CERS HAZ WASTE, CERS TANKS, Cortese, HIST...	Higher	822, 0.156, ESE
C24	DOLLAR GENERAL STORE	1065 CALIMESA BLVD	RCRA NonGen / NLR	Higher	900, 0.170, NNE
C25	DOLLAR GENERAL #1427	1065 CALIMESA BLVD	CERS HAZ WASTE, HAZNET, CERS, HWTS	Higher	900, 0.170, NNE
D26	G & M OIL CO/CHEVRON	499 SANDALWOOD DR	UST	Higher	928, 0.176, SE
D27	G & M #80	499 SANDALWOOD	RCRA NonGen / NLR	Higher	928, 0.176, SE
D28	G&M OIL CO. #80	499 SANDALWOOD DR	CERS HAZ WASTE, CERS TANKS, CERS	Higher	928, 0.176, SE
E29	VILLA CALIMESA MOBIL	1134 VILLA CALIMESA	RCRA-SQG	Higher	928, 0.176, West
E30	VILLA CALIMESA MOBIL	1134 VILLA CALIMESA	RCRA NonGen / NLR	Higher	928, 0.176, West
E31	VILLA CALIMESA MOBIL	1134 VILLA CALIMESA	RCRA NonGen / NLR	Higher	928, 0.176, West
E32	VILLA CALIMESA MOBIL	1134 VILLA CALIMESA	RCRA NonGen / NLR	Higher	928, 0.176, West
33	CALIMESA DRIVE-IN DA	1045 CALIMESA BLVD	HIST UST	Higher	1106, 0.209, NNE
F34	UNOCAL #5636	665 W COUNTY LINE RO	LUST, HIST UST, Cortese, CERS	Higher	2505, 0.474, NNW
35	CALIMESA SUNSHINE S.	905 CALIMESA BLVD	LUST, SWEEPS UST, Cortese, HIST CORTESE, CERS	Higher	2522, 0.478, North
F36	UNOCAL #5636	665 COUNTY LINE	LUST, HIST CORTESE	Higher	2595, 0.491, NNW
37	JUNIOR/ SENIOR HIGH	AVENUE L	ENVIROSTOR, SCH	Lower	2729, 0.517, WNW

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE ---------- Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG ---------- RCRA - Large Quantity Generators

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROLS ---------- Institutional Controls Sites List

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE ---- State Response Sites

State and tribal landfill and/or solid waste disposal site lists

SWF/LF ---- Solid Waste Information System

State and tribal leaking storage tank lists

INDIAN LUST ---- Leaking Underground Storage Tanks on Indian Land
CPS-SLIC ---- Statewide SLIC Cases

State and tribal registered storage tank lists

FEMA UST ---- Underground Storage Tank Listing
AST ---- Aboveground Petroleum Storage Tank Facilities
INDIAN UST ---- Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

VCP ---- Voluntary Cleanup Program Properties
INDIAN VCP ---- Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS ---- Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT ---- Waste Management Unit Database
SWRCY ---- Recycler Database
HAULERS ---- Registered Waste Tire Haulers Listing
INDIAN ODI ---- Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9 ---- Torres Martinez Reservation Illegal Dump Site Locations
ODI ---- Open Dump Inventory
IHS OPEN DUMPS ---- Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ---- Delisted National Clandestine Laboratory Register
HIST Cal-Sites ---- Historical Calsites Database
SCH ---- School Property Evaluation Program
CDL ---- Clandestine Drug Labs
Toxic Pits ---- Toxic Pits Cleanup Act Sites
US CDL ---- National Clandestine Laboratory Register
PFAS ---- PFAS Contamination Site Location Listing

EXECUTIVE SUMMARY

Local Lists of Registered Storage Tanks

CA FID UST ---- Facility Inventory Database

Local Land Records

LIENS ---- Environmental Liens Listing
LIENS 2 ---- CERCLA Lien Information
DEED ---- Deed Restriction Listing

Records of Emergency Release Reports

HMIRS ---- Hazardous Materials Information Reporting System
CHMIRS ---- California Hazardous Material Incident Report System
LDS ---- Land Disposal Sites Listing
MCS ---- Military Cleanup Sites Listing
SPILLS 90 ---- SPILLS 90 data from FirstSearch

Other Ascertainable Records

FUDS ---- Formerly Used Defense Sites
DOD ---- Department of Defense Sites
SCRD DRYCLEANERS ---- State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR ---- Financial Assurance Information
EPA WATCH LIST ---- EPA WATCH LIST
2020 COR ACTION ---- 2020 Corrective Action Program List
TSCA ---- Toxic Substances Control Act
TRIS ---- Toxic Chemical Release Inventory System
SSTS ---- Section 7 Tracking Systems
ROD ---- Records Of Decision
RMP ---- Risk Management Plans
RAATS ---- RCRA Administrative Action Tracking System
PRP ---- Potentially Responsible Parties
PADS ---- PCB Activity Database System
ICIS ---- Integrated Compliance Information System
FTTS ---- FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS ---- Material Licensing Tracking System
COAL ASH DOE ---- Steam-Electric Plant Operation Data
COAL ASH EPA ---- Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER ---- PCB Transformer Registration Database
RADINFO ---- Radiation Information Database
HIST FTTS ---- FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS ---- Incident and Accident Data
CONSENT ---- Superfund (CERCLA) Consent Decrees
INDIAN RESERV ---- Indian Reservations
FUSRAP ---- Formerly Utilized Sites Remedial Action Program
UMTRA ---- Uranium Mill Tailings Sites
LEAD SMELTERS ---- Lead Smelter Sites
US AIRS ---- Aerometric Information Retrieval System Facility Subsystem
US MINES ---- Mines Master Index File
ABANDONED MINES ---- Abandoned Mines
FINDS ---- Facility Index System/Facility Registry System
UXO ---- Unexploded Ordnance Sites

DOCKET HWC ---- Hazardous Waste Compliance Docket Listing
ECHO ---- Enforcement & Compliance History Information
FUELS PROGRAM ---- EPA Fuels Program Registered Listing
CA BOND EXP. PLAN ---- Bond Expenditure Plan
CUPA Listings ---- CUPA Resources List
DRYCLEANERS ---- Cleaner Facilities
EMI ---- Emissions Inventory Data
ENF ---- Enforcement Action Listing
Financial Assurance ---- Financial Assurance Information Listing
HAZNET ---- Facility and Manifest Data
ICE ---- ICE
HWP ---- EnviroStor Permitted Facilities Listing
HWT ---- Registered Hazardous Waste Transporter Database
MINES ---- Mines Site Location Listing
MWMP ---- Medical Waste Management Program Listing
NPDES ---- NPDES Permits Listing
PEST LIC ---- Pesticide Regulation Licenses Listing
PROC ---- Certified Processors Database
UIC ---- UIC Listing
UIC GEO ---- UIC GEO (GEOTRACKER)
WASTEWATER PITS ---- Oil Wastewater Pits Listing
WDS ---- Waste Discharge System
WIP ---- Well Investigation Program Case List
MILITARY PRIV SITES ---- MILITARY PRIV SITES (GEOTRACKER)
PROJECT ---- PROJECT (GEOTRACKER)
WDR ---- Waste Discharge Requirements Listing
CIWQS ---- California Integrated Water Quality System
CERS ---- CERS
NON-CASE INFO ---- NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS ---- OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS ---- PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT ---- SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ ---- Well Stimulation Project (GEOTRACKER)
HWTS ---- Hazardous Waste Tracking System
MINES MRDS ---- Mineral Resources Data System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP ---- EDR Proprietary Manufactured Gas Plants
EDR Hist Cleaner ---- EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF ---- Recovered Government Archive Solid Waste Facilities List
RGA LUST ---- Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

EXECUTIVE SUMMARY

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA generators list

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 12/14/2020 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
VILLA CALIMESA MOBIL	1134 VILLA CALIMESA	W 1/8 - 1/4 (0.176 mi.)	E29	209

RCRA-VSQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-VSQG list, as provided by EDR, and dated 12/14/2020 has revealed that there is 1 RCRA-VSQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WALGREENS #10366 EPA ID:: CAL000347789	1186 CALIMESA BLVD	ESE 0 - 1/8 (0.107 mi.)	A1	9

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to,

identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 10/26/2020 has revealed that there is 1 ENVIROSTOR site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
JUNIOR/ SENIOR HIGH	***AVENUE L***	***WNW 1/2 - 1 (0.517 mi.)***	***37***	***232***
Facility Id: 36650004				
Status: No Action Required				

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there are 8 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
COUNTY CORK LIQUOR	***1198 CALIMESA BLVD***	***ESE 0 - 1/8 (0.115 mi.)***	***B4***	***56***
Database: LUST REG 8, Date of Government Version: 02/14/2005				
Facility Status: Case Closed				
Global ID: T0607100003				
COUNTY CORK BUSINESS	***1198 CALIMESA BLVD***	***ESE 0 - 1/8 (0.115 mi.)***	***B6***	***59***
Database: LUST, Date of Government Version: 09/08/2020				
Database: RIVERSIDE CO. LUST, Date of Government Version: 10/06/2020				
Status: Completed - Case Closed				
Facility Id: 200015986				
Global Id: T0607100003				
Facility Status: 9				
ARCO #1958	***1216 CALIMESA BLVD***	***SE 0 - 1/8 (0.123 mi.)***	***B7***	***62***
Database: LUST REG 8, Date of Government Version: 02/14/2005				
Facility Status: Remediation Plan				
Global ID: T0606500105				
ARCO CALIMESA #1958	***1216 CALIMESA BLVD.***	***SE 0 - 1/8 (0.123 mi.)***	***B9***	***68***
Database: LUST, Date of Government Version: 09/08/2020				
Database: RIVERSIDE CO. LUST, Date of Government Version: 10/06/2020				
Status: Completed - Case Closed				
Facility Id: 89624				
Facility Id: 201032797				
Global Id: T10000001842				
Global Id: T0606500105				
Facility Status: 9				
SHELL #1213	***1213 CALIMESA BLVD***	***ESE 1/8 - 1/4 (0.156 mi.)***	***B23***	***144***
Database: LUST REG 8, Date of Government Version: 02/14/2005				
Database: LUST, Date of Government Version: 09/08/2020				
Database: RIVERSIDE CO. LUST, Date of Government Version: 10/06/2020				

Status: Completed - Case Closed
Facility Status: Case Closed
Facility Id: 93059
Global Id: T0606500312
Facility Status: 9
Global ID: T0606500312

UNOCAL #5636 ***665 W COUNTY LINE RO*** ***NNW 1/4 - 1/2 (0.474 mi.)*** ***F34*** ***220***
Database: LUST, Date of Government Version: 09/08/2020
Database: RIVERSIDE CO. LUST, Date of Government Version: 10/06/2020
Status: Completed - Case Closed
Facility Id: 94537
Global Id: T0606500389
Facility Status: 9

CALIMESA SUNSHINE S. ***905 CALIMESA BLVD*** ***N 1/4 - 1/2 (0.478 mi.)*** ***35*** ***226***
Database: LUST REG 8, Date of Government Version: 02/14/2005
Database: LUST, Date of Government Version: 09/08/2020
Database: RIVERSIDE CO. LUST, Date of Government Version: 10/06/2020
Status: Completed - Case Closed
Facility Status: Remedial action (cleanup) Underway
Facility Id: 94318
Global Id: T0606500379
Facility Status: 0
Global ID: T0606500379

UNOCAL #5636 ***665 COUNTY LINE*** ***NNW 1/4 - 1/2 (0.491 mi.)*** ***F36*** ***230***
Database: LUST REG 8, Date of Government Version: 02/14/2005
Facility Status: Case Closed
Global ID: T0606500389

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, has revealed that there are 3 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ARCO #1958	***1216 CALIMESA BLVD***	***SE 0 - 1/8 (0.123 mi.)***	***B7***	***62***
Database: RIVERSIDE CO. UST, Date of Government Version: 10/06/2020 Database: UST, Date of Government Version: 09/08/2020 Facility Id: 41 Facility Id: FA0032617				
CALIMESA SHELL	1213 CALIMESA BLVD	ESE 1/8 - 1/4 (0.156 mi.)	B22	143
Database: RIVERSIDE CO. UST, Date of Government Version: 10/06/2020 Database: UST, Date of Government Version: 09/08/2020 Facility Id: 144 Facility Id: FA0032317				
G & M OIL CO/CHEVRON	499 SANDALWOOD DR	SE 1/8 - 1/4 (0.176 mi.)	D26	197
Database: RIVERSIDE CO. UST, Date of Government Version: 10/06/2020 Database: UST, Date of Government Version: 09/08/2020				

EXECUTIVE SUMMARY

Facility Id: 332
Facility Id: FA0021848

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

CERS HAZ WASTE: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

A review of the CERS HAZ WASTE list, as provided by EDR, and dated 10/19/2020 has revealed that there are 9 CERS HAZ WASTE sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WALGREENS #10366	***1186 CALIMESA BLVD***	***ESE 0 - 1/8 (0.107 mi.)***	***A2***	***13***
ARCO CALIMESA #1958	***1216 CALIMESA BLVD.***	***SE 0 - 1/8 (0.123 mi.)***	***B9***	***68***
DOLLAR TREE #7259	***1126 CALIMESA BLVD***	***NNE 1/8 - 1/4 (0.130 mi.)***	***C12***	***90***
STATER BROS MARKETS	***1155 CALIMESA BLVD***	***E 1/8 - 1/4 (0.138 mi.)***	***A15***	***101***
TRACTOR SUPPLY COMPA	***1060 CALIMESA BLVD***	***NE 1/8 - 1/4 (0.141 mi.)***	***C17***	***108***
AUTOZONE #4379	***1095 CALIMESA BLVD***	***NE 1/8 - 1/4 (0.154 mi.)***	***C18***	***121***
SHELL #1213	***1213 CALIMESA BLVD***	***ESE 1/8 - 1/4 (0.156 mi.)***	***B23***	***144***
DOLLAR GENERAL #1427	***1065 CALIMESA BLVD***	***NNE 1/8 - 1/4 (0.170 mi.)***	***C25***	***175***
G&M OIL CO. #80	***499 SANDALWOOD DR***	***SE 1/8 - 1/4 (0.176 mi.)***	***D28***	***200***

Local Lists of Registered Storage Tanks

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 3 SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
COUNTY CORK LIQUOR Status: A Tank Status: A Comp Number: 32057	***1198 CALIMESA BLVD***	***ESE 0 - 1/8 (0.115 mi.)***	***B4***	***56***
ARCO #1958 Status: A Tank Status: A Comp Number: 26680	***1216 CALIMESA BLVD***	***SE 0 - 1/8 (0.123 mi.)***	***B7***	***62***
SHELL SERVICE STATIO Status: A Tank Status: A Comp Number: 1681	***1213 CALIMESA BLVD***	***ESE 1/8 - 1/4 (0.156 mi.)***	***B21***	***131***

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 3 HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
COUNTY CORK BUSINESS Facility Id: 00000032057	***1198 CALIMESA BLVD***	***ESE 0 - 1/8 (0.115 mi.)***	***B6***	***59***
JAMES OLIVER HYATT Facility Id: 00000026680	1216 CALIMESA BLVD	SE 0 - 1/8 (0.123 mi.)	B11	89
CALIMESA DRIVE-IN DA Facility Id: 00000042533	1045 CALIMESA BLVD	NNE 1/8 - 1/4 (0.209 mi.)	33	219

CERS TANKS: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

A review of the CERS TANKS list, as provided by EDR, and dated 10/19/2020 has revealed that there are 3 CERS TANKS sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ARCO CALIMESA #1958	***1216 CALIMESA BLVD.***	***SE 0 - 1/8 (0.123 mi.)***	***B9***	***68***
SHELL #1213	***1213 CALIMESA BLVD***	***ESE 1/8 - 1/4 (0.156 mi.)***	***B23***	***144***
G&M OIL CO. #80	***499 SANDALWOOD DR***	***SE 1/8 - 1/4 (0.176 mi.)***	***D28***	***200***

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 12/14/2020 has revealed that there are 12 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GOPAL KRISHNA CO INC EPA ID:: CAL000209196	1216 CALIMESA	SE 0 - 1/8 (0.123 mi.)	B8	65
DOLLAR TREE 07259 EPA ID:: CAL000428246	1126 CALIMESA BLVD	NNE 1/8 - 1/4 (0.130 mi.)	C13	96
STATER BROS MARKETS EPA ID:: CAL000334578	1155 CALIMESA BLVD	E 1/8 - 1/4 (0.138 mi.)	A14	98
TRACTOR SUPPLY COMPA EPA ID:: CAL000423074	1060 CALIMESA BLVD	NE 1/8 - 1/4 (0.141 mi.)	C16	106
AUTOZONE #4379 EPA ID:: CAL000448635	1095 CALIMESA BLVD	NE 1/8 - 1/4 (0.154 mi.)	C19	126
SABA PARTNERS INC DB EPA ID:: CAL000345693	1213 CALIMESA BLVD	ESE 1/8 - 1/4 (0.156 mi.)	B20	128
SHELL SERVICE STATIO	***1213 CALIMESA BLVD***	***ESE 1/8 - 1/4 (0.156 mi.)***	***B21***	***131***

EPA ID:: CAR000125583				
DOLLAR GENERAL STORE EPA ID:: CAL000394453	1065 CALIMESA BLVD	NNE 1/8 - 1/4 (0.170 mi.)	C24	173
G & M #80 EPA ID:: CAL000249755	499 SANDALWOOD	SE 1/8 - 1/4 (0.176 mi.)	D27	197
VILLA CALIMESA MOBIL EPA ID:: CAC003056870	1134 VILLA CALIMESA	W 1/8 - 1/4 (0.176 mi.)	E30	212
VILLA CALIMESA MOBIL	1134 VILLA CALIMESA	W 1/8 - 1/4 (0.176 mi.)	E31	214
VILLA CALIMESA MOBIL EPA ID:: CAC003043122	1134 VILLA CALIMESA	W 1/8 - 1/4 (0.176 mi.)	E32	217

Cortese: The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

A review of the Cortese list, as provided by EDR, and dated 06/22/2020 has revealed that there are 5 Cortese sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
COUNTY CORK BUSINESS Cleanup Status: COMPLETED - CASE CLOSED	***1198 CALIMESA BLVD***	***ESE 0 - 1/8 (0.115 mi.)***	***B6***	***59***
ARCO CALIMESA #1958 Cleanup Status: COMPLETED - CASE CLOSED	***1216 CALIMESA BLVD.***	***SE 0 - 1/8 (0.123 mi.)***	***B9***	***68***
SHELL #1213 Cleanup Status: COMPLETED - CASE CLOSED	***1213 CALIMESA BLVD***	***ESE 1/8 - 1/4 (0.156 mi.)***	***B23***	***144***
UNOCAL #5636 Cleanup Status: COMPLETED - CASE CLOSED	***665 W COUNTY LINE RO***	***NNW 1/4 - 1/2 (0.474 mi.)***	***F34***	***220***
CALIMESA SUNSHINE S. Cleanup Status: COMPLETED - CASE CLOSED	***905 CALIMESA BLVD***	***N 1/4 - 1/2 (0.478 mi.)***	***35***	***226***

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 4 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
COUNTY CORK LIQUOR Reg Id: 083303630T Reg Id: 08360232T Reg Id: 083603244T	***1198 CALIMESA BLVD***	***ESE 0 - 1/8 (0.115 mi.)***	***B4***	***56***
SHELL #1213 Reg Id: 083302217T	***1213 CALIMESA BLVD***	***ESE 1/8 - 1/4 (0.156 mi.)***	***B23***	***144***
CALIMESA SUNSHINE S. Reg Id: 083302496T	***905 CALIMESA BLVD***	***N 1/4 - 1/2 (0.478 mi.)***	***35***	***226***
UNOCAL #5636 Reg Id: 083302518T	***665 COUNTY LINE***	***NNW 1/4 - 1/2 (0.491 mi.)***	***F36***	***230***

Notify 65: Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

A review of the Notify 65 list, as provided by EDR, and dated 12/07/2020 has revealed that there is 1 Notify 65 site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ARCO CALIMESA #1958	***1216 CALIMESA BLVD.***	***SE 0 - 1/8 (0.123 mi.)***	***B9***	***68***

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 3 EDR Hist Auto sites within approximately 0.125 miles of the target property.

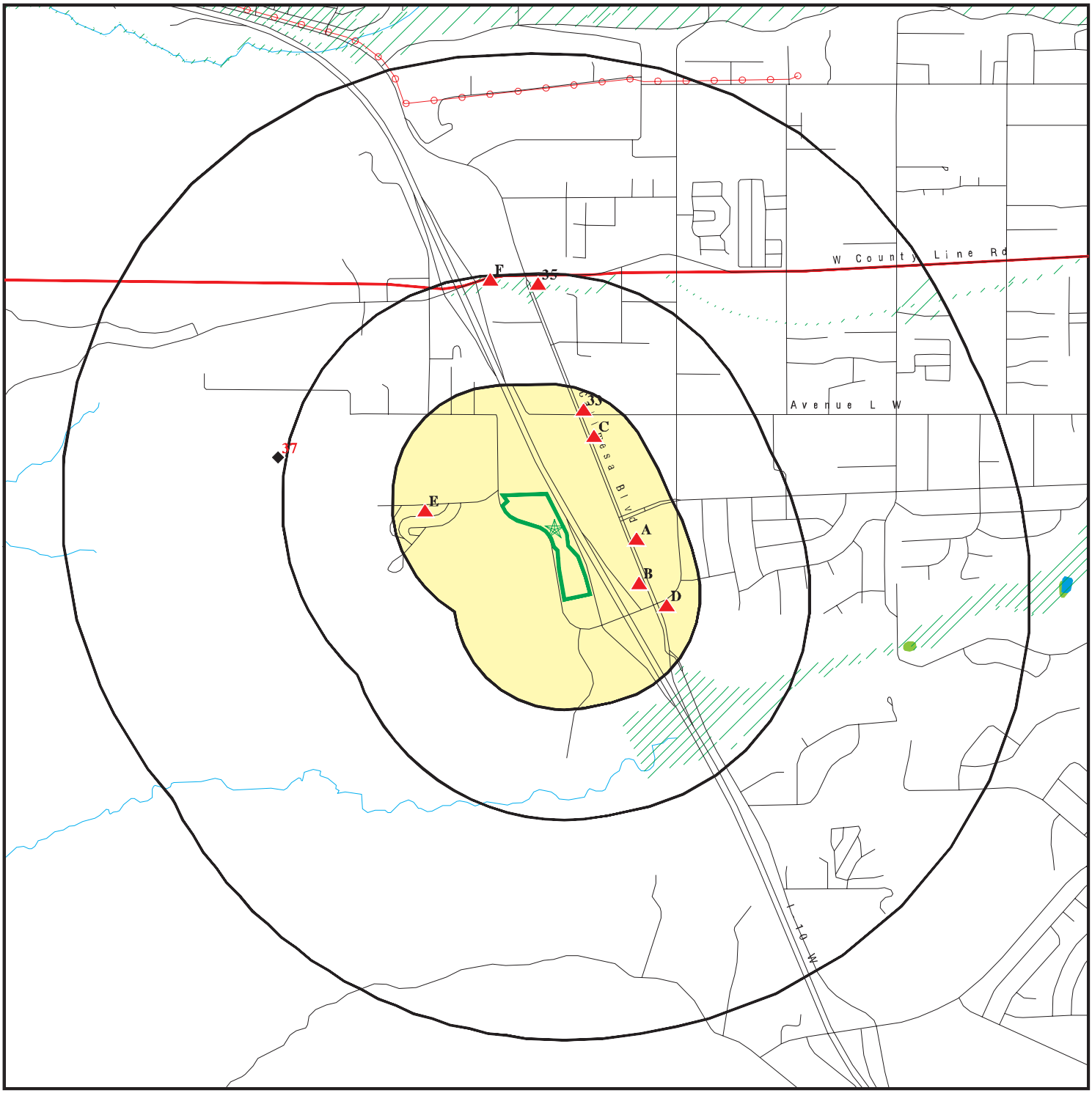
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
COUNTY CORK WINE & S	1190 CALIMESA BLVD	ESE 0 - 1/8 (0.111 mi.)	A3	55
SULLIVAN JIM AND JIL	1198 CALIMESA ST	ESE 0 - 1/8 (0.115 mi.)	B5	58
ZIERT MIKE	1216 CALIMICA BLVD	SE 0 - 1/8 (0.123 mi.)	B10	88

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 2 records.

Site Name	Database(s)
APN 411 210 024 006 7TH STREET	CIWQS
REDLANDS AIRPORT	CPS-SLIC

OVERVIEW MAP - 6342496.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

0 1/4 1/2 1 Miles

Indian Reservations BIA

County Boundary

Power transmission lines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

Areas of Concern

N

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	APN 411-210-024 and 411-210-006	CLIENT:	Partner Engineering and Science, Inc.
ADDRESS:	APN 411-210-024 and 411-210-006 CALIMESA CA 92320	CONTACT:	Angie Lessire
LAT/LONG:	33.995596 / 117.061068	INQUIRY #:	6342496.2s
		DATE:	January 26, 2021 8:05 am

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DETAIL MAP - 6342496.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	APN 411-210-024 and 411-210-006	CLIENT:	Partner Engineering and Science, Inc.
ADDRESS:	APN 411-210-024 and 411-210-006 CALIMESA CA 92320	CONTACT:	Angie Lessire
LAT/LONG:	33.995596 / 117.061068	INQUIRY #:	6342496.2s
		DATE:	January 26, 2021 8:06 am

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	1	NR	NR	NR	1
RCRA-VSQG	0.250		1	0	NR	NR	NR	1
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		0	0	0	1	NR	1
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		4	1	3	NR	NR	8

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		1	2	NR	NR	NR	3
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	TP		NR	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
CERS HAZ WASTE	0.250		2	7	NR	NR	NR	9
US CDL	TP		NR	NR	NR	NR	NR	0
PFAS	0.500		0	0	0	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		2	1	NR	NR	NR	3
HIST UST	0.250		2	1	NR	NR	NR	3
CA FID UST	0.250		0	0	NR	NR	NR	0
CERS TANKS	0.250		1	2	NR	NR	NR	3
Local Land Records								
LIENS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	TP		NR	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
CHMIRS	TP		NR	NR	NR	NR	NR	0
LDS	TP		NR	NR	NR	NR	NR	0
MCS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		1	11	NR	NR	NR	12
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		2	1	2	NR	NR	5
CUPA Listings	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	TP		NR	NR	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
HAZNET	TP		NR	NR	NR	NR	NR	0
ICE	TP		NR	NR	NR	NR	NR	0
HIST CORTESE	0.500		1	1	2	NR	NR	4
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
PEST LIC	TP		NR	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		1	0	0	0	NR	1
UIC	TP		NR	NR	NR	NR	NR	0
UIC GEO	TP		NR	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	TP		NR	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
MILITARY PRIV SITES	TP		NR	NR	NR	NR	NR	0
PROJECT	TP		NR	NR	NR	NR	NR	0
WDR	TP		NR	NR	NR	NR	NR	0
CIWQS	TP		NR	NR	NR	NR	NR	0
CERS	TP		NR	NR	NR	NR	NR	0
NON-CASE INFO	TP		NR	NR	NR	NR	NR	0
OTHER OIL GAS	TP		NR	NR	NR	NR	NR	0
PROD WATER PONDS	TP		NR	NR	NR	NR	NR	0
SAMPLING POINT	TP		NR	NR	NR	NR	NR	0
WELL STIM PROJ	TP		NR	NR	NR	NR	NR	0
HWTS	TP		NR	NR	NR	NR	NR	0
MINES MRDS	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		3	NR	NR	NR	NR	3
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		0	21	28	7	1	0	57

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1
ESE
< 1/8
0.107 mi.
565 ft.

WALGREENS #10366
1186 CALIMESA BLVD
CALIMESA, CA 92320

Site 1 of 5 in cluster A

RCRA-VSQG **1016954575**
CAL000347789

Relative:
Higher

Actual:
2406 ft.

RCRA-VSQG:

Date Form Received by Agency:		2016-04-06 00:00:00.0
Handler Name:	WALGREENS #10366	
Handler Address:		1186 CALIMESA BLVD
Handler City,State,Zip:		CALIMESA, CA 92320
EPA ID:		CAL000347789
Contact Name:		KARINA ROMERO
Contact Address:		GREYHAWK CT
Contact City,State,Zip:		CARLSBAD, CA 92010
Contact Telephone:		760-602-8700
Contact Fax:		760-918-4025
Contact Email:		REGULATORY@3ECOMPANY.COM
Contact Title:		BUSINESS SOLUTIONS SPECIALIST
EPA Region:		09
Land Type:		Private
Federal Waste Generator Description:		Conditionally Exempt Small Quantity Generator
Non-Notifier:		Not reported
Biennial Report Cycle:		2015
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		GREYHAWK CT
Mailing City,State,Zip:		CARLSBAD, CA 92010
Owner Name:		REDUS ONE LLC
Owner Type:		Private
Operator Name:		WALGREEN CO.
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		NN
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

WALGREENS #10366 (Continued) **1016954575**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2016-11-04 19:42:33.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	Not reported

Biennial: List of Years
Year: 2015

Click Here for Biennial Reporting System Data:
Year: 2013

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:
Waste Code: D001
Waste Description: IGNITABLE WASTE

Waste Code: D002
Waste Description: CORROSIVE WASTE

Waste Code: D007
Waste Description: CHROMIUM

Waste Code: D009
Waste Description: MERCURY

Waste Code: D010
Waste Description: SELENIUM

Waste Code: D024

WALGREENS #10366 (Continued) **1016954575**

Waste Description: M-CRESOL

Waste Code: P001
Waste Description: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

Waste Code: P075
Waste Description: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

Waste Code: U034
Waste Description: ACETALDEHYDE, TRICHLORO- (OR) CHLORAL

Waste Code: U165
Waste Description: NAPHTHALENE

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	WALGREEN CO
Legal Status:	Private
Date Became Current:	2013-02-15 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	REDUS ONE LLC
Legal Status:	Private
Date Became Current:	2013-02-15 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	301 S COLLEGE ST
Owner/Operator City,State,Zip:	CHARLOTTE, NC 28288
Owner/Operator Telephone:	909-946-6226
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	REDUS ONE LLC
Legal Status:	Private
Date Became Current:	2009-08-03 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	301 S COLLEGE ST D1053-04B
Owner/Operator City,State,Zip:	CHARLOTTE, NC 28288
Owner/Operator Telephone:	909-946-6226
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	WALGREEN CO.
Legal Status:	Private

WALGREENS #10366 (Continued) **1016954575**

Date Became Current:	2009-09-11 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2014-06-09 00:00:00.0
Handler Name: WALGREENS #10366	
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	2016-04-06 00:00:00.0
Handler Name: WALGREENS #10366	
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	44611
NAICS Description:	PHARMACIES AND DRUG STORES

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

A2 **WALGREENS #10366** **CERS HAZ WASTE** **S113157464**
ESE **1186 CALIMESA BLVD** **HAZNET** **N/A**
< 1/8 **CALIMESA, CA 92320** **CERS**
0.107 mi. **HWTS**
565 ft. **Site 2 of 5 in cluster A**

Relative: Higher

Actual: 2406 ft.

CERS HAZ WASTE:
Name: WALGREENS #10366
Address: 1186 CALIMESA BLVD
City,State,Zip: CALIMESA, CA 92320
Site ID: 169816
CERS ID: 10327231
CERS Description: Hazardous Waste Generator

HAZNET:
Name: WALGREENS #10366
Address: 1186 CALIMESA BLVD
Address 2: Not reported
City,State,Zip: CALIMESA, CA 920100000
Contact: KARINA ROMERO
Telephone: 7606028700
Mailing Name: Not reported
Mailing Address: 3207 GREY HAWK CT. SUITE 200

Year: 2019
Gepaid: CAL000347789
TSD EPA ID: INR000110197
CA Waste Code: 311 - Pharmaceutical waste
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.00100

Year: 2019
Gepaid: CAL000347789
TSD EPA ID: AZR000515924
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.24350

Year: 2019
Gepaid: CAL000347789
TSD EPA ID: CAD008364432
CA Waste Code: 131 - Aqueous solution (2 < pH < 12.5) containing reactive anions ...
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.00100

Year: 2019
Gepaid: CAL000347789
TSD EPA ID: CAD008364432
CA Waste Code: 311 - Pharmaceutical waste
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.11000

Year: 2019
Gepaid: CAL000347789
TSD EPA ID: NVD980895338

WALGREENS #10366 (Continued) **S113157464**

CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.04200
Year:	2019
Gepaid:	CAL000347789
TSD EPA ID:	AZR000515924
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.23250
Year:	2019
Gepaid:	CAL000347789
TSD EPA ID:	CAD008364432
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.05100
Year:	2019
Gepaid:	CAL000347789
TSD EPA ID:	CAD008364432
CA Waste Code:	122 - Alkaline solution without metals pH >= 12.5
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.01000
Year:	2018
Gepaid:	CAL000347789
TSD EPA ID:	CAD008364432
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.00300
Year:	2018
Gepaid:	CAL000347789
TSD EPA ID:	NVD980895338
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.05200

Click this hyperlink while viewing on your computer to access
59 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:

Year:	2011
Gen EPA ID:	CAL000347789
Shipment Date:	20111227
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	005137949FLE

WALGREENS #10366 (Continued) **S113157464**

Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.001
Waste Quantity:	2
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20111227
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	005137949FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.036
Waste Quantity:	72
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20111227
Creation Date:	12/3/2012 22:16:24
Receipt Date:	20120104
Manifest ID:	005137949FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture

WALGREENS #10366 (Continued) **S113157464**

RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0045
Waste Quantity:	9
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20111227
Creation Date:	12/3/2012 22:16:24
Receipt Date:	20120104
Manifest ID:	005137949FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.01
Waste Quantity:	20
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20111227
Creation Date:	12/3/2012 22:16:24
Receipt Date:	20120104
Manifest ID:	005137949FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	311 - Pharmaceutical waste
RCRA Code:	P075
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0005
Waste Quantity:	1
Quantity Unit:	P
Additional Code 1:	P001
Additional Code 2:	Not reported

WALGREENS #10366 (Continued) **S113157464**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20111227
Creation Date:	12/3/2012 22:16:24
Receipt Date:	20120104
Manifest ID:	005137949FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0025
Waste Quantity:	5
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20111227
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	005137949FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	311 - Pharmaceutical waste
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.0205
Waste Quantity:	41
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20111227
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	005137949FLE

WALGREENS #10366 (Continued) **S113157464**

Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.002
Waste Quantity:	4
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20111027
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	004969314FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	311 - Pharmaceutical waste
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.015
Waste Quantity:	30
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20111027
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	004969314FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution

WALGREENS #10366 (Continued) **S113157464**

RCRA Code: Not reported
Meth Code: - Not reported
Quantity Tons: 0.027
Waste Quantity: 54
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2013
Gen EPA ID: CAL000347789

Shipment Date: 20131231
Creation Date: 5/24/2014 22:15:13
Receipt Date: 20140113
Manifest ID: 006275630FLE
Trans EPA ID: MNS000110924
Trans Name: STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID: OKD981588791
Trans 2 Name: TRIAD TRANSPORT INC
TSDF EPA ID: INR000110197
Trans Name: STERICYCLE INC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 214 - Unspecified solvent mixture
RCRA Code: D001
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.0025
Waste Quantity: 5
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20131231
Creation Date: 5/24/2014 22:15:13
Receipt Date: 20140113
Manifest ID: 006275630FLE
Trans EPA ID: MNS000110924
Trans Name: STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID: OKD981588791
Trans 2 Name: TRIAD TRANSPORT INC
TSDF EPA ID: INR000110197
Trans Name: STERICYCLE INC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 214 - Unspecified solvent mixture
RCRA Code: D001
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.004

WALGREENS #10366 (Continued) **S113157464**

Waste Quantity:	8
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20131231
Creation Date:	5/24/2014 22:15:13
Receipt Date:	20140113
Manifest ID:	006275630FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	131 - Aqueous solution (2 < pH < 12.5) containing reactive anions (azide, bromate, chlorate, cyanide, fluoride, hypochlorite, nitrite, perchlorate, and sulfide anions
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.004
Waste Quantity:	8
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20131231
Creation Date:	5/24/2014 22:15:13
Receipt Date:	20140113
Manifest ID:	006275630FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	311 - Pharmaceutical waste
RCRA Code:	P001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0005
Waste Quantity:	1
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

WALGREENS #10366 (Continued) **S113157464**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130927
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	006216413FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.002
Waste Quantity:	4
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130927
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	006216413FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.017
Waste Quantity:	34
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130927
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	006216413FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC

WALGREENS #10366 (Continued) **S113157464**

Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.0195
Waste Quantity:	39
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20130927
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	006216413FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.0005
Waste Quantity:	1
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20130927
Creation Date:	3/3/2014 22:15:27
Receipt Date:	20131011
Manifest ID:	006216413FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No

WALGREENS #10366 (Continued) **S113157464**

	Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0045
Waste Quantity:	9
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130927
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	006216413FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0015
Waste Quantity:	3
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2014
Gen EPA ID:	CAL000347789
Shipment Date:	20141210
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	007334914FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.043
Waste Quantity:	86

WALGREENS #10366 (Continued) **S113157464**

Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141210
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	007334914FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.031
Waste Quantity:	62
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141210
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	007334914FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.009
Waste Quantity:	18
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

WALGREENS #10366 (Continued) **S113157464**

Shipment Date:	20141210
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	007334914FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.004
Waste Quantity:	8
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20141210
Creation Date:	3/19/2015 22:14:50
Receipt Date:	20141215
Manifest ID:	007334914FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	131 - Aqueous solution (2 < pH < 12.5) containing reactive anions (azide, bromate, chlorate, cyanide, fluoride, hypochlorite, nitrite, perchlorate, and sulfide anions
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0005
Waste Quantity:	1
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20141210
Creation Date:	6/25/2015 22:15:06
Receipt Date:	20150102
Manifest ID:	007334913FLE
Trans EPA ID:	MNS000110924

WALGREENS #10366 (Continued) **S113157464**

Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD008364432
Trans 2 Name:	RHO CHEM LLC
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0005
Waste Quantity:	1
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141210
Creation Date:	3/19/2015 22:14:50
Receipt Date:	20141215
Manifest ID:	007334914FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	311 - Pharmaceutical waste
RCRA Code:	P001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0005
Waste Quantity:	1
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141210
Creation Date:	3/19/2015 22:14:50
Receipt Date:	20141215
Manifest ID:	007334914FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

WALGREENS #10366 (Continued) **S113157464**

Waste Code Description:	311 - Pharmaceutical waste
RCRA Code:	P075
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.001
Waste Quantity:	2
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141210
Creation Date:	3/19/2015 22:14:50
Receipt Date:	20141215
Manifest ID:	007334914FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0015
Waste Quantity:	3
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140919
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	005826104FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0005
Waste Quantity:	1
Quantity Unit:	P

WALGREENS #10366 (Continued) **S113157464**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2015
Gen EPA ID:	CAL000347789
Shipment Date:	20151207
Creation Date:	3/25/2016 22:15:42
Receipt Date:	20151214
Manifest ID:	008563373FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	311 - Pharmaceutical waste
RCRA Code:	P075
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.001
Waste Quantity:	2
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151207
Creation Date:	3/25/2016 22:15:42
Receipt Date:	20151214
Manifest ID:	008563373FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	311 - Pharmaceutical waste
RCRA Code:	P001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0005
Waste Quantity:	1
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

WALGREENS #10366 (Continued) **S113157464**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151207
Creation Date:	3/25/2016 22:15:42
Receipt Date:	20151214
Manifest ID:	008563373FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	311 - Pharmaceutical waste
RCRA Code:	D010
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0005
Waste Quantity:	1
Quantity Unit:	P
Additional Code 1:	D007
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151207
Creation Date:	3/25/2016 22:15:42
Receipt Date:	20151214
Manifest ID:	008563373FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0055
Waste Quantity:	11
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151207
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008563373FLE

WALGREENS #10366 (Continued) **S113157464**

Trans EPA ID: MNS000110924
Trans Name: STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID: CAD983649880
Trans 2 Name: PSC ENVIRONMENTAL SERVICES LP
TSDF EPA ID: CAD008364432
Trans Name: RHO CHEM LLC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: - Not reported
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons: 0.018
Waste Quantity: 36
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20151207
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 008563373FLE
Trans EPA ID: MNS000110924
Trans Name: STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID: CAD983649880
Trans 2 Name: PSC ENVIRONMENTAL SERVICES LP
TSDF EPA ID: CAD008364432
Trans Name: RHO CHEM LLC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: - Not reported
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons: 0.027
Waste Quantity: 54
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20151207
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 008563373FLE
Trans EPA ID: MNS000110924
Trans Name: STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID: CAD983649880
Trans 2 Name: PSC ENVIRONMENTAL SERVICES LP
TSDF EPA ID: CAD008364432
Trans Name: RHO CHEM LLC
TSDF Alt EPA ID: Not reported

WALGREENS #10366 (Continued) **S113157464**

TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.154
Waste Quantity:	308
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151207
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008563373FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0495
Waste Quantity:	99
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151207
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008563373FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.007
Waste Quantity:	14

WALGREENS #10366 (Continued) **S113157464**

Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150909
Creation Date:	2/5/2016 22:15:10
Receipt Date:	20150917
Manifest ID:	008436054FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD008364432
Trans 2 Name:	RHO CHEM LLC
TSDF EPA ID:	NVD980895338
Trans Name:	21ST CENTURY EMN LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0005
Waste Quantity:	1
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2010
Gen EPA ID:	CAL000347789
Shipment Date:	20101227
Creation Date:	5/27/2011 18:30:22
Receipt Date:	20110107
Manifest ID:	004202566FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	OHD083377010
Trans Name:	ENVIRONMENTAL ENTERPRISES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	311 - Pharmaceutical waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.006
Waste Quantity:	12
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported

WALGREENS #10366 (Continued) **S113157464**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101227
Creation Date:	5/27/2011 18:30:22
Receipt Date:	20110107
Manifest ID:	004202566FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	OHD083377010
Trans Name:	ENVIRONMENTAL ENTERPRISES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.0125
Waste Quantity:	25
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101227
Creation Date:	5/27/2011 18:30:22
Receipt Date:	20110107
Manifest ID:	004202566FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	OHD083377010
Trans Name:	ENVIRONMENTAL ENTERPRISES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.022
Waste Quantity:	44
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101227
Creation Date:	5/27/2011 18:30:22
Receipt Date:	20110107
Manifest ID:	004202566FLE

WALGREENS #10366 (Continued) **S113157464**

Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	OHD083377010
Trans Name:	ENVIRONMENTAL ENTERPRISES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H050 - Energy Recovery At This Site--Use As Fuel(Includes On-Site Fuel Blending)
Quantity Tons:	0.0045
Waste Quantity:	9
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20101227
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	004202566FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	OHD083377010
Trans Name:	ENVIRONMENTAL ENTERPRISES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.0005
Waste Quantity:	1
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20100910
Creation Date:	3/3/2011 18:30:18
Receipt Date:	20100930
Manifest ID:	007485972JJK
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	OHD083377010
Trans Name:	ENVIRONMENTAL ENTERPRISES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

WALGREENS #10366 (Continued) **S113157464**

Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	- Not reported
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20100624
Creation Date:	1/26/2011 18:30:17
Receipt Date:	20100716
Manifest ID:	007263194JJK
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	OHD083377010
Trans Name:	ENVIRONMENTAL ENTERPRISES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H050 - Energy Recovery At This Site--Use As Fuel(Includes On-Site Fuel Blending)
Quantity Tons:	0.0045
Waste Quantity:	9
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20100624
Creation Date:	10/17/2011 9:48:46
Receipt Date:	20100707
Manifest ID:	007263195JJK
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	SCR000770073
Trans Name:	KILN DIRECT
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.0345
Waste Quantity:	69
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported

WALGREENS #10366 (Continued) **S113157464**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20100624
Creation Date:	10/17/2011 9:48:46
Receipt Date:	20100707
Manifest ID:	007263195JJK
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	SCR000770073
Trans Name:	KILN DIRECT
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	311 - Pharmaceutical waste
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.014
Waste Quantity:	28
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20100624
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	007263194JJK
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	OHD083377010
Trans Name:	ENVIRONMENTAL ENTERPRISES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.0015
Waste Quantity:	3
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2012
Gen EPA ID:	CAL000347789
Shipment Date:	20120924

WALGREENS #10366 (Continued) **S113157464**

Creation Date:	4/2/2013 22:15:07
Receipt Date:	20121017
Manifest ID:	005435677FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0025
Waste Quantity:	5
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20120924
Creation Date:	4/2/2013 22:15:07
Receipt Date:	20121017
Manifest ID:	005435677FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	311 - Pharmaceutical waste
RCRA Code:	P075
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0005
Waste Quantity:	1
Quantity Unit:	P
Additional Code 1:	P001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20120924
Creation Date:	4/2/2013 22:15:07
Receipt Date:	20121017
Manifest ID:	005435677FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC

WALGREENS #10366 (Continued) **S113157464**

TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	311 - Pharmaceutical waste
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.006
Waste Quantity:	12
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120924
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	005435677FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120924
Creation Date:	4/2/2013 22:15:07
Receipt Date:	20121017
Manifest ID:	005435677FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.013
Waste Quantity:	26

WALGREENS #10366 (Continued) **S113157464**

Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120830
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	005479108FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	NED986382133
Trans 2 Name:	SMITH SYSTEM TRANSPORTATION
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.025
Waste Quantity:	50
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120830
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	005479108FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	NED986382133
Trans 2 Name:	SMITH SYSTEM TRANSPORTATION
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.001
Waste Quantity:	2
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120830
Creation Date:	Not reported

WALGREENS #10366 (Continued) **S113157464**

Receipt Date:	Not reported
Manifest ID:	005479108FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	NED986382133
Trans 2 Name:	SMITH SYSTEM TRANSPORTATION
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.011
Waste Quantity:	22
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20120830
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	005479108FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	NED986382133
Trans 2 Name:	SMITH SYSTEM TRANSPORTATION
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	311 - Pharmaceutical waste
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.02
Waste Quantity:	40
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20120830
Creation Date:	3/21/2013 22:15:13
Receipt Date:	20120924
Manifest ID:	005479108FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	NED986382133
Trans 2 Name:	SMITH SYSTEM TRANSPORTATION
TSDF EPA ID:	INR000110197
Trans Name:	STERICYCLE INC
TSDF Alt EPA ID:	Not reported

WALGREENS #10366 (Continued) **S113157464**

TSDF Alt Name: Not reported
Waste Code Description: 311 - Pharmaceutical waste
RCRA Code: P001
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.001
Waste Quantity: 2
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2017
Gen EPA ID: CAL000347789

Shipment Date: 20171201
Creation Date: 7/19/2018 18:30:11
Receipt Date: 20171211
Manifest ID: 010758925FLE
Trans EPA ID: MNS000110924
Trans Name: STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID: CAR000217000
Trans 2 Name: LA CHIQUITA TRUCKING
TSDF EPA ID: CAD008364432
Trans Name: RHO CHEM LLC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 311 - Pharmaceutical waste
RCRA Code: P001
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.0005
Waste Quantity: 1
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20171201
Creation Date: 7/19/2018 18:30:11
Receipt Date: 20171211
Manifest ID: 010758925FLE
Trans EPA ID: MNS000110924
Trans Name: STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID: CAR000217000
Trans 2 Name: LA CHIQUITA TRUCKING
TSDF EPA ID: CAD008364432
Trans Name: RHO CHEM LLC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 311 - Pharmaceutical waste
RCRA Code: D010

WALGREENS #10366 (Continued) **S113157464**

Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0005
Waste Quantity:	1
Quantity Unit:	P
Additional Code 1:	D007
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171201
Creation Date:	7/19/2018 18:30:11
Receipt Date:	20171211
Manifest ID:	010758925FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000217000
Trans 2 Name:	LA CHIQUITA TRUCKING
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	311 - Pharmaceutical waste
RCRA Code:	P075
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0005
Waste Quantity:	1
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171201
Creation Date:	7/19/2018 18:30:11
Receipt Date:	20171211
Manifest ID:	010758925FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000217000
Trans 2 Name:	LA CHIQUITA TRUCKING
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	131 - Aqueous solution (2 < pH < 12.5) containing reactive anions (azide, bromate, chlorate, cyanide, fluoride, hypochlorite, nitrite, perchlorate, and sulfide anions
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0005
Waste Quantity:	1
Quantity Unit:	P

WALGREENS #10366 (Continued) **S113157464**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171201
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	010758925FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000217000
Trans 2 Name:	LA CHIQUITA TRUCKING
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0025
Waste Quantity:	5
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171201
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	010758925FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000217000
Trans 2 Name:	LA CHIQUITA TRUCKING
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0085
Waste Quantity:	17
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171201

WALGREENS #10366 (Continued) **S113157464**

Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	010758925FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000217000
Trans 2 Name:	LA CHIQUITA TRUCKING
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0465
Waste Quantity:	93
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20171201
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	010758925FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000217000
Trans 2 Name:	LA CHIQUITA TRUCKING
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0535
Waste Quantity:	107
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20170828
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	010814579FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000217554
Trans 2 Name:	CRUZ CONTAINERS LOGISTICS INC

WALGREENS #10366 (Continued) **S113157464**

TSDF EPA ID: CAD008364432
Trans Name: RHO CHEM LLC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 331 - Off-specification, aged, or surplus organics
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.057
Waste Quantity: 114
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20170828
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 010814579FLE
Trans EPA ID: MNS000110924
Trans Name: STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID: CAR000217554
Trans 2 Name: CRUZ CONTAINERS LOGISTICS INC
TSDF EPA ID: CAD008364432
Trans Name: RHO CHEM LLC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 352 - Other organic solids
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.0345
Waste Quantity: 69
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2016
Gen EPA ID: CAL000347789

Shipment Date: 20151207
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 008563373FLE
Trans EPA ID: MNS000110924
Trans Name: STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID: CAD983649880
Trans 2 Name: PSC ENVIRONMENTAL SERVICES LP
TSDF EPA ID: CAD008364432
Trans Name: RHO CHEM LLC
TSDF Alt EPA ID: Not reported

WALGREENS #10366 (Continued) **S113157464**

TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0495
Waste Quantity:	99
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151207
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008563373FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.154
Waste Quantity:	308
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151207
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008563373FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.027
Waste Quantity:	54

WALGREENS #10366 (Continued) **S113157464**

Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151207
Creation Date:	3/25/2016 22:15:42
Receipt Date:	20151214
Manifest ID:	008563373FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0055
Waste Quantity:	11
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151207
Creation Date:	3/25/2016 22:15:42
Receipt Date:	20151214
Manifest ID:	008563373FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	311 - Pharmaceutical waste
RCRA Code:	D010
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0005
Waste Quantity:	1
Quantity Unit:	P
Additional Code 1:	D007
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

WALGREENS #10366 (Continued) **S113157464**

Shipment Date:	20151207
Creation Date:	3/25/2016 22:15:42
Receipt Date:	20151214
Manifest ID:	008563373FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	311 - Pharmaceutical waste
RCRA Code:	P001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0005
Waste Quantity:	1
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20151207
Creation Date:	3/25/2016 22:15:42
Receipt Date:	20151214
Manifest ID:	008563373FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	311 - Pharmaceutical waste
RCRA Code:	P075
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.001
Waste Quantity:	2
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20151207
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008563373FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880

WALGREENS #10366 (Continued) **S113157464**

Trans 2 Name:	PSC ENVIRONMENTAL SERVICES LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.018
Waste Quantity:	36
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151207
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008563373FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.007
Waste Quantity:	14
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150909
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008436053FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported

WALGREENS #10366 (Continued) **S113157464**

Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.036
Waste Quantity: 72
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

CERS:
Name: WALGREENS #10366
Address: 1186 CALIMESA BLVD
City,State,Zip: CALIMESA, CA 92320
Site ID: 169816
CERS ID: 10327231
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 169816
Site Name: Walgreens #10366
Violation Date: 12-15-2015
Citation: 40 CFR 1 262.34(d)(5)(iii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(iii)
Violation Description: Failure to ensure employees are familiar with the handling and compliance of hazardous waste regulations and emergency response.
Violation Notes: Returned to compliance on 06/03/2016.
Violation Division: Riverside County Department of Env Health
Violation Program: HW
Violation Source: CERS

Site ID: 169816
Site Name: Walgreens #10366
Violation Date: 12-15-2015
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description: Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes: Returned to compliance on 06/03/2016.
Violation Division: Riverside County Department of Env Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 169816
Site Name: Walgreens #10366
Violation Date: 01-21-2016
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description: Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes: Returned to compliance on 06/03/2016.
Violation Division: Riverside County Department of Env Health

WALGREENS #10366 (Continued) **S113157464**

Violation Program: HMRRP
Violation Source: CERS

Site ID: 169816
Site Name: Walgreens #10366
Violation Date: 01-21-2016
Citation: 40 CFR 1 262.34(d)(5)(iii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(iii)
Violation Description: Failure to ensure employees are familiar with the handling and compliance of hazardous waste regulations and emergency response.
Violation Notes: Returned to compliance on 06/03/2016.
Violation Division: Riverside County Department of Env Health
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 01-21-2016
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-21-2016
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-15-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-15-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-26-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported

WALGREENS #10366 (Continued) **S113157464**

Eval Division: Riverside County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-26-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS

Enforcement Action:
Site ID: 169816
Site Name: Walgreens #10366
Site Address: 1186 CALIMESA BLVD
Site City: CALIMESA
Site Zip: 92320
Enf Action Date: 01-21-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Riverside County Department of Env Health
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 169816
Site Name: Walgreens #10366
Site Address: 1186 CALIMESA BLVD
Site City: CALIMESA
Site Zip: 92320
Enf Action Date: 01-21-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Riverside County Department of Env Health
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 169816
Site Name: Walgreens #10366
Site Address: 1186 CALIMESA BLVD
Site City: CALIMESA
Site Zip: 92320
Enf Action Date: 12-15-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Riverside County Department of Env Health
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 169816
Site Name: Walgreens #10366
Site Address: 1186 CALIMESA BLVD
Site City: CALIMESA

WALGREENS #10366 (Continued) **S113157464**

Site Zip: 92320
Enf Action Date: 12-15-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Riverside County Department of Env Health
Enf Action Program: HW
Enf Action Source: CERS

Coordinates:
Site ID: 169816
Facility Name: Walgreens #10366
Env Int Type Code: HWG
Program ID: 10327231
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.994790
Longitude: -117.058490

Affiliation:
Affiliation Type Desc: Parent Corporation
Entity Name: Walgreens
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: Verisk 3E, Regulatory/Walgreen Co., 3207 Grey Hawk Court, Suite 200
Affiliation City: Deerfield
Affiliation State: IL
Affiliation Country: Not reported
Affiliation Zip: 60015
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer
Entity Name: Tristan Guison, on behalf of Walgreen Co.
Entity Title: Regulatory Compliance Specialist II, Verisk 3E
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: Walgreen Co.
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported

WALGREENS #10366 (Continued) **S113157464**

Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(847) 914-2264
Affiliation Type Desc:	CUPA District
Entity Name:	Riverside Cnty Env Health
Entity Title:	Not reported
Affiliation Address:	4065 County Circle Drive, Room 104
Affiliation City:	Riverside
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92503
Affiliation Phone:	(951) 358-5055
Affiliation Type Desc:	Document Preparer
Entity Name:	Tristan Guison, On behalf of Walgreen Co.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	Verisk 3E, Regulatory Department/Walgreen Co.
Entity Title:	Not reported
Affiliation Address:	3207 Grey Hawk Court, Suite 200
Affiliation City:	Carlsbad
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92010
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Walgreen Co.
Entity Title:	Not reported
Affiliation Address:	200 Wilmot Road
Affiliation City:	Deerfield
Affiliation State:	IL
Affiliation Country:	United States
Affiliation Zip:	60015
Affiliation Phone:	(847) 914-2264
Affiliation Type Desc:	Property Owner
Entity Name:	REDUS ONE LLC
Entity Title:	Not reported
Affiliation Address:	301 S COLLEGE ST D1053-04B
Affiliation City:	CHARLOTTE
Affiliation State:	NC
Affiliation Country:	United States
Affiliation Zip:	28288
Affiliation Phone:	(909) 946-6226

HWTS:
Name: WALGREENS #10366

WALGREENS #10366 (Continued) **S113157464**

Address:	1186 CALIMESA BLVD
Address 2:	Not reported
City,State,Zip:	CALIMESA, CA 92320
EPA ID:	CAL000347789
Inactive Date:	Not reported
Create Date:	11/05/2009
Last Act Date:	08/03/2020
Mailing Name:	Not reported
Mailing Address:	104 WILMOT RD 5TH FLR MS 1450
Mailing Address 2:	Not reported
Mailing City,State,Zip:	DEERFIELD, IL 60015
Owner Name:	WALGREEN CO.
Owner Address:	200 WILMOT RD MS 2273
Owner Address 2:	Not reported
Owner City,State,Zip:	DEERFIELD, IL 600150000
Contact Name:	KARINA ROMERO
Contact Address:	3207 GREY HAWK CT., SUITE 200
Contact Address 2:	Not reported
City,State,Zip:	CARLSBAD, CA 92010

NAICS:

EPA ID:	CAL000347789
Create Date:	2009-11-05 09:25:16.637
NAICS Code:	44611
NAICS Description:	Pharmacies and Drug Stores
Issued EPA ID Date:	2009-11-05 09:25:16.63700
Inactive Date:	Not reported
Facility Name:	WALGREENS #10366
Facility Address:	1186 CALIMESA BLVD
Facility Address 2:	Not reported
Facility City:	CALIMESA
Facility County:	Not reported
Facility State:	CA
Facility Zip:	92320

A3 **COUNTY CORK WINE & SPIRITS** **EDR Hist Auto** **1020763777**
ESE **1190 CALIMESA BLVD** **N/A**
< 1/8 **CALIMESA, CA 92320**
0.111 mi.
586 ft. **Site 3 of 5 in cluster A**

Relative: EDR Hist Auto
Higher

Actual:
2406 ft.

Year:	Name:	Type:
1999	COUNTY CORK WINE & SPIRITS	Liquor Stores
2000	COUNTY CORK WINE & SPIRITS	Liquor Stores

B4 **COUNTY CORK LIQUOR** **LUST** **S104573234**
ESE **1198 CALIMESA BLVD** **SWEEPS UST** **N/A**
< 1/8 **CALIMESA, CA 92320** **HIST CORTESE**
0.115 mi.
605 ft. **Site 1 of 12 in cluster B**

Relative: **Higher**

Actual: **2406 ft.**

LUST REG 8:

Name:	COUNTY CORK LIQUOR
Address:	1198 CALIMESA BLVD
City:	CALIMESA
Region:	8
County:	Riverside
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083303630T
Local Case Num:	200015986
Case Type:	Soil only
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	I-10 FREEWAY
Enf Type:	Not reported
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Not reported
Leak Cause:	UNK
Leak Source:	UNK
Global ID:	T0607100003
How Stopped Date:	10/27/1999
Enter Date:	2/2/2000
Date Confirmation of Leak Began:	1/25/2000
Date Preliminary Assessment Began:	Not reported
Discover Date:	1/25/2000
Enforcement Date:	Not reported
Close Date:	7/8/2003
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	2/2/2000
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	34.003245
Longitude:	-117.06175
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	RS
Staff Initials:	Not reported
Lead Agency:	Local Agency

COUNTY CORK LIQUOR (Continued) **S104573234**

Local Agency: 33000L
Hydr Basin #: UPPER SANTA ANA VALL
Beneficial: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Work Suspended: No
Summary: Not reported

SWEEPS UST:
Name: AMERICAN GASOLINE COUNTY CORK
Address: 1198 CALIMESA BLVD
City: CALIMESA
Status: Active
Comp Number: 32057
Number: 1
Board Of Equalization: 44-008422
Referral Date: 06-03-93
Action Date: 06-03-93
Created Date: 02-29-88
Owner Tank Id: 333-1
SWRCB Tank Id: 33-000-032057-000001
Tank Status: A
Capacity: 10000
Active Date: 06-03-93
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: 3

Name: AMERICAN GASOLINE COUNTY CORK
Address: 1198 CALIMESA BLVD
City: CALIMESA
Status: Active
Comp Number: 32057
Number: 1
Board Of Equalization: 44-008422
Referral Date: 06-03-93
Action Date: 06-03-93
Created Date: 02-29-88
Owner Tank Id: 333-2
SWRCB Tank Id: 33-000-032057-000002
Tank Status: A
Capacity: 10000
Active Date: 06-03-93
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Name: AMERICAN GASOLINE COUNTY CORK
Address: 1198 CALIMESA BLVD
City: CALIMESA
Status: Active
Comp Number: 32057
Number: 1
Board Of Equalization: 44-008422
Referral Date: 06-03-93

COUNTY CORK LIQUOR (Continued) **S104573234**

Action Date:	06-03-93
Created Date:	02-29-88
Owner Tank Id:	333-3
SWRCB Tank Id:	33-000-032057-000003
Tank Status:	A
Capacity:	8000
Active Date:	06-03-93
Tank Use:	M.V. FUEL
STG:	P
Content:	PRM UNLEADED
Number Of Tanks:	Not reported

HIST CORTESE:

edr_fname:	COUNTY CORK LIQUOR
edr_fadd1:	1198
City,State,Zip:	CALIMESA, CA 92320
Region:	CORTESE
Facility County Code:	36
Reg By:	LTNKA
Reg Id:	083303630T

edr_fname:	PRONTO MARKETING #316
edr_fadd1:	1198
City,State,Zip:	CALIMESA, CA 92320
Region:	CORTESE
Facility County Code:	36
Reg By:	LTNKA
Reg Id:	08360232T

edr_fname:	CHEVRON #9-9125
edr_fadd1:	1198
City,State,Zip:	CALIMESA, CA 92320
Region:	CORTESE
Facility County Code:	36
Reg By:	LTNKA
Reg Id:	083603244T

B5 **SULLIVAN JIM AND JILL** **EDR Hist Auto** **1021045429**
ESE **1198 CALIMESA ST** **N/A**
< 1/8 **CALIMESA, CA 92320**
0.115 mi.
605 ft. **Site 2 of 12 in cluster B**

Relative: EDR Hist Auto
Higher

Actual:
2406 ft.

Year:	Name:	Type:
1988	SULLIVAN JIM AND JILL	Liquor Stores
1989	SULLIVAN JIM AND JILL	Liquor Stores
1990	SULLIVAN JIM AND JILL	Liquor Stores
1991	SULLIVAN JIM AND JILL	Liquor Stores
1992	COUNTY CORK WINE & SPIRITS	Liquor Stores
1993	COUNTY CORK WINE & SPIRITS	Liquor Stores
1994	COUNTY CORK WINE & SPIRITS	Liquor Stores
1995	COUNTY CORK WINE & SPIRITS	Liquor Stores
1996	COUNTY CORK WINE & SPIRITS	Liquor Stores
1997	COUNTY CORK WINE & SPIRITS	Liquor Stores
1998	COUNTY CORK WINE & SPIRITS	Liquor Stores

SULLIVAN JIM AND JILL (Continued) **1021045429**

2001	COUNTY CORK WINE & SPIRITS	Liquor Stores
2002	COUNTY CORK WINE & SPIRITS	Liquor Stores
2003	COUNTY CORK WINE & SPIRITS	Liquor Stores
2004	COUNTY CORK WINE & SPIRITS	Liquor Stores
2005	COUNTY CORK WINE & SPIRITS	Liquor Stores
2006	COUNTY CORK WINE & SPIRITS	Liquor Stores
2007	COUNTY CORK WINE & SPIRITS	Liquor Stores
2008	COUNTY CORK WINE & SPIRITS	Liquor Stores
2009	COUNTY CORK WINE & SPIRITS	Liquor Stores
2010	COUNTY CORK WINE & SPIRITS	Liquor Stores
2011	COUNTY CORK WINE & SPIRITS	Liquor Stores
2012	COUNTY CORK WINE & SPIRITS	Liquor Stores
2013	COUNTY CORK WINE & SPIRITS	Liquor Stores
2014	COUNTY CORK WINE & SPIRITS	Liquor Stores

B6 **COUNTY CORK BUSINESS VERTURES** **LUST** **U001574616**
ESE **1198 CALIMESA BLVD** **HIST UST** **N/A**
< 1/8 **CALIMESA, CA 92320** **Cortese**
0.115 mi. **CERS**
605 ft. **Site 3 of 12 in cluster B**

Relative:
Higher

Actual:
2406 ft.

RIVERSIDE CO. LUST:

Name:	COUNTY CORK LIQUOR
Address:	1198 CALIMESA BLVD
City,State,Zip:	CALIMESA, CA
Region:	RIVERSIDE
Facility ID:	200015986
Employee:	Shurlow-LOP
Site Closed:	Yes
Case Type:	Soil only
Facility Status:	closed/action completed
Casetype Decode:	Soil only is impacted
Fstatus Decode:	Closed/Action completed

LUST:

Name:	COUNTY CORK LIQUOR
Address:	1198 CALIMESA BLVD
City,State,Zip:	CALIMESA, CA 92320
Lead Agency:	RIVERSIDE COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607100003
Global Id:	T0607100003
Latitude:	33.993813
Longitude:	-117.057902
Status:	Completed - Case Closed
Status Date:	07/08/2003
Case Worker:	RIV
RB Case Number:	083303630T
Local Agency:	RIVERSIDE COUNTY LOP
File Location:	Local Agency Warehouse
Local Case Number:	200015986
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0607100003
Contact Type:	Regional Board Caseworker

COUNTY CORK BUSINESS VERTURES (Continued) **U001574616**

Contact Name: ROSE SCOTT
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: rose.scott@waterboards.ca.gov
Phone Number: 9513206375

Global Id: T0607100003
Contact Type: Local Agency Caseworker
Contact Name: Riverside County LOP
Organization Name: RIVERSIDE COUNTY LOP
Address: 3880 LEMON ST SUITE 200
City: RIVERSIDE
Email: Not reported
Phone Number: 9519558980

LUST:
Global Id: T0607100003
Action Type: Other
Date: 01/25/2000
Action: Leak Reported

Global Id: T0607100003
Action Type: ENFORCEMENT
Date: 07/10/2003
Action: File review - #RCDEH Upload Site File 5/10/2010

Global Id: T0607100003
Action Type: Other
Date: 01/25/2000
Action: Leak Discovery

Global Id: T0607100003
Action Type: ENFORCEMENT
Date: 07/11/2003
Action: Closure/No Further Action Letter - #Riv Co Closure

Global Id: T0607100003
Action Type: Other
Date: 10/27/1999
Action: Leak Stopped

LUST:
Global Id: T0607100003
Status: Open - Case Begin Date
Status Date: 10/27/1999

Global Id: T0607100003
Status: Open - Site Assessment
Status Date: 01/25/2000

Global Id: T0607100003
Status: Completed - Case Closed
Status Date: 07/08/2003

COUNTY CORK BUSINESS VERTURES (Continued) **U001574616**

HIST UST:

Name:	COUNTY CORK BUSINESS VERTURES
Address:	1198 CALIMESA BLVD
City,State,Zip:	CALIMESA, CA 92320
File Number:	0001F95A
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0001F95A.pdf
Region:	STATE
Facility ID:	00000032057
Facility Type:	Gas Station
Other Type:	C-STORE
Contact Name:	VICTOR KHOURI & JACOB KHOURI
Telephone:	7147953032
Owner Name:	SAV-MOR OIL CO.
Owner Address:	5150 WILSHIRE BOULEVARD
Owner City,St,Zip:	LOS ANGELES, CA 90041
Total Tanks:	0003
Tank Num:	001
Container Num:	333-1
Year Installed:	1979
Tank Capacity:	00009940
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	1/4"
Leak Detection:	Visual, Stock Inventor, Pressure Test
Tank Num:	002
Container Num:	333-2
Year Installed:	1979
Tank Capacity:	00009940
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	1/4"
Leak Detection:	Visual, Stock Inventor, Pressure Test
Tank Num:	003
Container Num:	333-3
Year Installed:	1979
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	1/4"
Leak Detection:	Visual, Stock Inventor, Pressure Test

Click here for Geo Tracker PDF:

CORTESE:

Name:	COUNTY CORK LIQUOR
Address:	1198 CALIMESA BLVD
City,State,Zip:	CALIMESA, CA 92320
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0607100003
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported

COUNTY CORK BUSINESS VERTURES (Continued) **U001574616**

Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

CERS:

Name:	COUNTY CORK LIQUOR
Address:	1198 CALIMESA BLVD
City,State,Zip:	CALIMESA, CA 92320
Site ID:	228426
CERS ID:	T0607100003
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	Riverside County LOP - RIVERSIDE COUNTY LOP
Entity Title:	Not reported
Affiliation Address:	3880 LEMON ST SUITE 200
Affiliation City:	RIVERSIDE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	9519558980

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	ROSE SCOTT - SANTA ANA RWQCB (REGION 8)
Entity Title:	Not reported
Affiliation Address:	3737 MAIN STREET, SUITE 500
Affiliation City:	RIVERSIDE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	9513206375

B7 **ARCO #1958** **LUST** **U003839050**
SE **1216 CALIMESA BLVD** **UST** **N/A**
< 1/8 **CALIMESA, CA 92320** **SWEEPS UST**
0.123 mi.
652 ft. **Site 4 of 12 in cluster B**

Relative:
Higher

Actual:
2407 ft.

LUST REG 8:

Name:	ARCO #1958
Address:	1216 CALIMESA BLVD
City:	CALIMESA
Region:	8
County:	Riverside

ARCO #1958 (Continued) **U003839050**

Regional Board:	Santa Ana Region
Facility Status:	Remediation Plan
Case Number:	083301053T
Local Case Num:	89624
Case Type:	Soil only
Substance:	Premium Gasoline
Qty Leaked:	Not reported
Abate Method:	Vapor Extraction
Cross Street:	SANDALWOOD
Enf Type:	None Taken
Funding:	Not reported
How Discovered:	Tank Test
How Stopped:	Not reported
Leak Cause:	UNK
Leak Source:	UNK
Global ID:	T0606500105
How Stopped Date:	5/24/1989
Enter Date:	10/27/1988
Date Confirmation of Leak Began:	5/24/1989
Date Preliminary Assessment Began:	Not reported
Discover Date:	5/24/1989
Enforcement Date:	1/1/1965
Close Date:	Not reported
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	2/11/1992
Date Remediation Plan Submitted:	1/1/1965
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	10/27/1988
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Yes
Oversite Program:	LUST
Latitude:	33.9953772
Longitude:	-117.058405
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	VJJ
Staff Initials:	UNK
Lead Agency:	Local Agency
Local Agency:	33000L
Hydr Basin #:	UPPER SANTA ANA VALL
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: PREVIOUSLY CLOSED 6/14/89. REOPENED.

UST:
Name: ARCO #1958

ARCO #1958 (Continued) **U003839050**

Address: 1216 CALIMESA BLVD
City,State,Zip: CALIMESA, CA 92320
Facility ID: 41
Permitting Agency: RIVERSIDE COUNTY
Latitude: 33.994764
Longitude: -117.05628

Name: ARCO #83180
Address: 1216 CALIMESA BLVD
City,State,Zip: CALIMESA, CA 92320
Facility ID: FA0032617
Permitting Agency: Riverside County Department of Environmental Health
Latitude: 33.9967
Longitude: -117.0568

RIVERSIDE CO. UST:
Name: ARCO #83180
Address: 1216 CALIMESA BLVD
City,State,Zip: CALIMESA, CA 92320
Region: RIVERSIDE
Total Tanks: 3

SWEEPS UST:
Name: ARCO #1958
Address: 1216 CALIMESA BLVD
City: CALIMESA
Status: Active
Comp Number: 26680
Number: 1
Board Of Equalization: 44-000506
Referral Date: 10-19-92
Action Date: 10-19-92
Created Date: 02-29-88
Owner Tank Id: 000088
SWRCB Tank Id: 33-000-026680-000006
Tank Status: A
Capacity: 12000
Active Date: 10-19-92
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: 3

Name: ARCO #1958
Address: 1216 CALIMESA BLVD
City: CALIMESA
Status: Active
Comp Number: 26680
Number: 1
Board Of Equalization: 44-000506
Referral Date: 10-19-92
Action Date: 10-19-92
Created Date: 02-29-88
Owner Tank Id: 000088
SWRCB Tank Id: 33-000-026680-000007
Tank Status: A

ARCO #1958 (Continued) **U003839050**

Capacity:	12000
Active Date:	10-19-92
Tank Use:	M.V. FUEL
STG:	P
Content:	LEADED
Number Of Tanks:	Not reported

Name:	ARCO #1958
Address:	1216 CALIMESA BLVD
City:	CALIMESA
Status:	Active
Comp Number:	26680
Number:	1
Board Of Equalization:	44-000506
Referral Date:	10-19-92
Action Date:	10-19-92
Created Date:	02-29-88
Owner Tank Id:	000088
SWRCB Tank Id:	33-000-026680-000008
Tank Status:	A
Capacity:	12000
Active Date:	10-19-92
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	Not reported

B8 **GOPAL KRISHNA CO INC** **RCRA NonGen / NLR** **1024799332**
SE **1216 CALIMESA** **CAL000209196**
< 1/8 **CALIMESA, CA 92320**
0.123 mi.
652 ft. **Site 5 of 12 in cluster B**

Relative: **Higher**

Actual: **2407 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		1999-10-29 00:00:00.0
Handler Name:	GOPAL KRISHNA CO INC	
Handler Address:		1216 CALIMESA
Handler City,State,Zip:		CALIMESA, CA 92320-0000
EPA ID:		CAL000209196
Contact Name:		BHUPAT BHANVADIA
Contact Address:		1216 CALIMESA BLVD
Contact City,State,Zip:		CALIMESA, CA 92320
Contact Telephone:		909-795-6444
Contact Fax:		909-795-6999
Contact Email:		BHUPAT795@AOL.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		1216 CALIMESA BLVD
Mailing City,State,Zip:		CALIMESA, CA 92320-0000
Owner Name:		GOPAL KRISHNA CO INC

GOPAL KRISHNA CO INC (Continued) **1024799332**

Owner Type:	Other
Operator Name:	BHUPAT BHANVADIA
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-09-05 15:44:55.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No

GOPAL KRISHNA CO INC (Continued) **1024799332**

Sub-Part P Indicator: No

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: BHUPAT BHANVADIA
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 1216 CALIMESA BLVD
Owner/Operator City,State,Zip: CALIMESA, CA 92320
Owner/Operator Telephone: 909-795-6444
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: GOPAL KRISHNA CO INC
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 1216 CALIMESA BLVD
Owner/Operator City,State,Zip: CALIMESA, CA 92320-0000
Owner/Operator Telephone: 909-795-6444
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 1999-10-29 00:00:00.0
Handler Name: GOPAL KRISHNA CO INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 44719
NAICS Description: OTHER GASOLINE STATIONS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

B9 **ARCO CALIMESA #1958** **LUST** **S100178801**
SE **1216 CALIMESA BLVD.** **CERS HAZ WASTE** **N/A**
< 1/8 **CALIMESA, CA 92320** **CERS TANKS**
0.123 mi. **Cortese**
652 ft. **Site 6 of 12 in cluster B** **Notify 65**
CERS

Relative:
Higher

Actual:
2407 ft.

RIVERSIDE CO. LUST:

Name:	ARCO #1958
Address:	1216 CALIMESA BLVD
City,State,Zip:	CALIMESA, CA
Region:	RIVERSIDE
Facility ID:	89624
Employee:	Shurlow-LOP
Site Closed:	Yes
Case Type:	Soil only
Facility Status:	closed/action completed
Casetype Decode:	Soil only is impacted
Fstatus Decode:	Closed/Action completed

Name:	ARCO #1958
Address:	1216 CALIMESA BLVD
City,State,Zip:	CALIMESA, CA
Region:	RIVERSIDE
Facility ID:	201032797
Employee:	Shurlow-LOP
Site Closed:	Yes
Case Type:	Soil only
Facility Status:	closed/action completed
Casetype Decode:	Soil only is impacted
Fstatus Decode:	Closed/Action completed

LUST:

Name:	ARCO CALIMESA #1958
Address:	1216 CALIMESA BLVD.
City,State,Zip:	CALIMESA, CA 92320
Lead Agency:	RIVERSIDE COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T10000001842
Global Id:	T10000001842
Latitude:	33.993451
Longitude:	-117.057683
Status:	Completed - Case Closed
Status Date:	06/30/2017
Case Worker:	SCB
RB Case Number:	Not reported
Local Agency:	RIVERSIDE COUNTY LOP
File Location:	Local Agency
Local Case Number:	201032797
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Soil samples were taken December 22, 2009 during tank and piping removal activities. Up to 29 ppm TPHg, 990 ppb 1,2,4-TMB, 280 ppb 1,3,5-TMB, 770 ppb benzene, 410 ppb ethylbenzene, 2640 ppb total xylenes, 2200 ppb toluene, and 86000 ppb ethanol was detected under the piping. A total of 10.65 tons of impacted soil was removed from the site on March 11, 2010 in the vicinity of PD2-2. Soil samples taken at the bottom of the excavation at 7 had 1930 ppm TPHg, 29.2 ppm benzene, 503 ppm toluene, 721 ppm xylenes, 2.89 ppm MTBE, 19.1

ARCO CALIMESA #1958 (Continued) **S100178801**

ppm naphthalene, 260 ppm 1,2,4-TMB, 84.6 ppm 1,3,5-TMB, 22.4 ppm n-butylbenzene, 13.6 ppm isopropylbenzene, 5.2 ppm sec-butylbenzene and 6.3 ppm 4-isopropyltoluene. The pit was excavated deeper and soil samples were taken from the bottom at 10.5. Sample results showed 0.134 ppm TPHg, 0.075 ppm benzene, 0.659 ppm toluene, 9.06 ppm xylenes, 0.336 ppm MTBE, 3.69 ppm naphthalene, 11.1 ppm 1,2,4-TMB, 3.2 ppm 1,3,5-TMB, 1.89 ppm n-butylbenzene, 0.232 ppm isopropylbenzene, 0.23 ppm sec-butylbenzene and 0.32 ppm 4-isopropyltoluene Five soil borings (FB1 through FB5) were drilled to 54 to 61.5 feet bg surrounding the excavation pit at PD2-2 on June 2 to 4, 2015. Soil samples were taken at 2.5 feet and 5 feet and every 5 foot after to depth. FB1 was drilled next to SS-S-2 had 0.013 ppm xylenes at 2.5 feet bg; 1.5 ppm TPHg, 0.0066 ppm ethylbenzene, and 0.017 ppm xylenes at 5 feet bg; and 16 ppm TPHg, 28 ppm TPHd, 0.0052 ppm toluene, 0.026 ppm ethylbenzene, and 0.25 ppm xylenes at 10 feet bg. FB2 was drilled 10 feet northeast of the excavation and did not have any detectable hydrocarbons. FB3 was drilled 10 feet southeast of the excavation and had 2.3 ppm TPHg, 0.0079 ppm ethylbenzene, and 0.014 ppm at 5 feet bg. FB4 was drilled 10 feet southwest of the excavation and had 7.5 ppm TPHg, 18 ppm TPHg, 0.056 ppm ethylbenzene and 0.3 ppm xylenes at 5 feet bg. FB5 was drilled 10 feet northwest of the excavation and had 6.8 ppm THg, 15 ppm TPHd, 0.066 ppm toluene, 0.15 ppm ethylbenzene, and 0.65 ppm xylenes at 5 feet bg; and 12 ppm, 31 ppm TPHd, 0.055 ppm toluene, 0.21 ppm ethylbenzene, and 0.78 ppm xylenes at 10 feet bg. Vapor extraction wells (FB4/VE1 and FB5/VE2) were installed in FB4 and FB5. VE4 was screened from 10 to 20 feet and VE5 was screened from 5 to 20 and 30 to 45 feet. Impacted soil remains in sidewall (SS-S-2) and in the bottom of the excavation at 10.5 ft (SS-1-10.5), however, boring FB1 was drilled at the excavation sidewall where SS-S-2 was collected and soil samples from 2.5 ft and 5 ft were at or below the detection limits, indicating detections at SS-S-2 were very limited. Further, FB1 was within 5-ft of SS-1-10.5, also indicating detections in the bottom of the former excavation were very limited.

LUST:

Global Id:	T10000001842
Contact Type:	Local Agency Caseworker
Contact Name:	SHARON BOLTINGHOUSE
Organization Name:	RIVERSIDE COUNTY LOP
Address:	3880 LEMON ST SUITE 200
City:	RIVERSIDE
Email:	sbolting@rivco.org
Phone Number:	9519558980

LUST:

Global Id:	T10000001842
Action Type:	RESPONSE
Date:	07/15/2012
Action:	Monitoring Report - Quarterly
Global Id:	T10000001842
Action Type:	RESPONSE
Date:	04/15/2012
Action:	Monitoring Report - Quarterly
Global Id:	T10000001842

ARCO CALIMESA #1958 (Continued) **S100178801**

Action Type: RESPONSE
Date: 10/15/2012
Action: Monitoring Report - Quarterly

Global Id: T10000001842
Action Type: ENFORCEMENT
Date: 06/30/2017
Action: Closure/No Further Action Letter - #RCDEH NFA

Global Id: T10000001842
Action Type: RESPONSE
Date: 01/15/2013
Action: Monitoring Report - Quarterly

Global Id: T10000001842
Action Type: Other
Date: 02/17/2010
Action: Leak Reported

Global Id: T10000001842
Action Type: RESPONSE
Date: 04/15/2013
Action: Monitoring Report - Quarterly

Global Id: T10000001842
Action Type: RESPONSE
Date: 07/15/2013
Action: Monitoring Report - Quarterly

Global Id: T10000001842
Action Type: RESPONSE
Date: 10/15/2013
Action: Monitoring Report - Quarterly

Global Id: T10000001842
Action Type: RESPONSE
Date: 01/15/2014
Action: Monitoring Report - Quarterly

Global Id: T10000001842
Action Type: RESPONSE
Date: 04/15/2014
Action: Monitoring Report - Quarterly

Global Id: T10000001842
Action Type: ENFORCEMENT
Date: 02/17/2010
Action: Notice of Responsibility - #RCDEH 021710

Global Id: T10000001842
Action Type: ENFORCEMENT
Date: 02/17/2010
Action: Notice of Reimbursement - #RCDEH 021710

Global Id: T10000001842
Action Type: ENFORCEMENT
Date: 02/17/2010

ARCO CALIMESA #1958 (Continued) **S100178801**

Action:	Staff Letter - #RCDEH 021710
Global Id:	T10000001842
Action Type:	ENFORCEMENT
Date:	02/17/2010
Action:	Notification - Proposition 65 - #RCDEH 021710
Global Id:	T10000001842
Action Type:	ENFORCEMENT
Date:	02/17/2010
Action:	Unauthorized Release Form - #RCDEH 021710
Global Id:	T10000001842
Action Type:	ENFORCEMENT
Date:	03/09/2010
Action:	Staff Letter - #RCDEH 030910
Global Id:	T10000001842
Action Type:	ENFORCEMENT
Date:	06/01/2010
Action:	Staff Letter - #rcdeh 060110
Global Id:	T10000001842
Action Type:	RESPONSE
Date:	04/24/2010
Action:	Preliminary Site Assessment Workplan
Global Id:	T10000001842
Action Type:	RESPONSE
Date:	04/30/2010
Action:	Site Assessment Report
Global Id:	T10000001842
Action Type:	RESPONSE
Date:	10/15/2014
Action:	Monitoring Report - Quarterly
Global Id:	T10000001842
Action Type:	RESPONSE
Date:	07/15/2014
Action:	Monitoring Report - Quarterly
Global Id:	T10000001842
Action Type:	RESPONSE
Date:	01/15/2015
Action:	Monitoring Report - Quarterly
Global Id:	T10000001842
Action Type:	ENFORCEMENT
Date:	04/05/2011
Action:	Staff Letter - #RCDEH 040511
Global Id:	T10000001842
Action Type:	ENFORCEMENT
Date:	01/24/2017
Action:	LOP Case Closure Summary to RB - #RCDEH#012417

ARCO CALIMESA #1958 (Continued) **S100178801**

Global Id: T10000001842
Action Type: ENFORCEMENT
Date: 01/26/2017
Action: Staff Letter - #RCDEH#012617

Global Id: T10000001842
Action Type: ENFORCEMENT
Date: 06/30/2017
Action: File review - #RCDEH uploaded site file 2/26/2016

Global Id: T10000001842
Action Type: ENFORCEMENT
Date: 07/01/2016
Action: Email Correspondence

Global Id: T10000001842
Action Type: RESPONSE
Date: 06/14/2017
Action: Well Destruction Report

Global Id: T10000001842
Action Type: RESPONSE
Date: 04/17/2017
Action: Other Report / Document

Global Id: T10000001842
Action Type: RESPONSE
Date: 02/23/2017
Action: Other Report / Document

Global Id: T10000001842
Action Type: RESPONSE
Date: 07/30/2010
Action: Preliminary Site Assessment Workplan - Addendum - Regulator Responded

Global Id: T10000001842
Action Type: RESPONSE
Date: 06/26/2015
Action: Preliminary Site Assessment Report - Regulator Responded

Global Id: T10000001842
Action Type: Other
Date: 02/17/2010
Action: Leak Discovery

Global Id: T10000001842
Action Type: RESPONSE
Date: 07/15/2011
Action: Monitoring Report - Quarterly

Global Id: T10000001842
Action Type: RESPONSE
Date: 10/15/2011
Action: Monitoring Report - Quarterly

Global Id: T10000001842
Action Type: RESPONSE

ARCO CALIMESA #1958 (Continued) **S100178801**

Date: 01/15/2012
Action: Monitoring Report - Quarterly

Global Id: T10000001842
Action Type: RESPONSE
Date: 04/15/2010
Action: Monitoring Report - Quarterly

Global Id: T10000001842
Action Type: RESPONSE
Date: 07/15/2010
Action: Monitoring Report - Quarterly

Global Id: T10000001842
Action Type: RESPONSE
Date: 10/15/2010
Action: Monitoring Report - Quarterly

Global Id: T10000001842
Action Type: RESPONSE
Date: 01/15/2011
Action: Monitoring Report - Quarterly

Global Id: T10000001842
Action Type: RESPONSE
Date: 04/15/2011
Action: Monitoring Report - Quarterly

Global Id: T10000001842
Action Type: RESPONSE
Date: 01/24/2017
Action: Request for Closure - Regulator Responded

Global Id: T10000001842
Action Type: REMEDIATION
Date: 03/11/2010
Action: Excavation

Global Id: T10000001842
Action Type: ENFORCEMENT
Date: 12/14/2016
Action: File review - #RCDEH site summary

Global Id: T10000001842
Action Type: ENFORCEMENT
Date: 01/24/2017
Action: File Review - Closure

Global Id: T10000001842
Action Type: Other
Date: 12/21/2009
Action: Leak Stopped

LUST:
Global Id: T10000001842
Status: Open - Case Begin Date
Status Date: 12/21/2009

ARCO CALIMESA #1958 (Continued) **S100178801**

Global Id: T10000001842
Status: Open - Site Assessment
Status Date: 02/17/2010

Global Id: T10000001842
Status: Open - Eligible for Closure
Status Date: 01/26/2017

Global Id: T10000001842
Status: Completed - Case Closed
Status Date: 06/30/2017

Name: ARCO #1958
Address: 1216 CALIMESA BLVD
City,State,Zip: CALIMESA, CA 92320
Lead Agency: RIVERSIDE COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0606500105
Global Id: T0606500105
Latitude: 33.9933490947651
Longitude: -117.057568150787
Status: Completed - Case Closed
Status Date: 08/26/2008
Case Worker: Not reported
RB Case Number: 083301053T
Local Agency: Not reported
File Location: Local Agency
Local Case Number: 89624
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: PREVIOUSLY CLOSED 6/14/89. REOPENED and closed again 8/26/2008. USTs replaced - new site opened 2-17-2010.

LUST:
Global Id: T0606500105
Contact Type: Regional Board Caseworker
Contact Name: VALERIE JAHN-BULL
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: valerie.jahn-bull@waterboards.ca.gov
Phone Number: 9517824903

LUST:
Global Id: T0606500105
Action Type: ENFORCEMENT
Date: 08/26/2008
Action: Closure/No Further Action Letter - #Riv Co Closure

Global Id: T0606500105
Action Type: ENFORCEMENT
Date: 04/15/2003
Action: File review

Global Id: T0606500105
Action Type: Other

ARCO CALIMESA #1958 (Continued) **S100178801**

Date: 09/25/1988
Action: Leak Reported

Global Id: T0606500105
Action Type: RESPONSE
Date: 11/17/2006
Action: Other Report / Document

Global Id: T0606500105
Action Type: RESPONSE
Date: 04/15/2007
Action: Remedial Progress Report

Global Id: T0606500105
Action Type: RESPONSE
Date: 07/15/2007
Action: Remedial Progress Report

Global Id: T0606500105
Action Type: RESPONSE
Date: 10/15/2007
Action: Remedial Progress Report

Global Id: T0606500105
Action Type: ENFORCEMENT
Date: 08/17/2006
Action: Staff Letter - #081706

Global Id: T0606500105
Action Type: RESPONSE
Date: 05/22/2008
Action: Unknown

Global Id: T0606500105
Action Type: RESPONSE
Date: 12/29/2007
Action: Other Report / Document

Global Id: T0606500105
Action Type: ENFORCEMENT
Date: 10/29/2007
Action: Staff Letter - #10/29/07

Global Id: T0606500105
Action Type: ENFORCEMENT
Date: 02/22/2008
Action: Staff Letter - #022208

Global Id: T0606500105
Action Type: ENFORCEMENT
Date: 01/17/2008
Action: File review

Global Id: T0606500105
Action Type: ENFORCEMENT
Date: 09/11/2007
Action: Staff Letter - #091107

ARCO CALIMESA #1958 (Continued) **S100178801**

Global Id: T0606500105
Action Type: Other
Date: 05/24/1989
Action: Leak Discovery

Global Id: T0606500105
Action Type: ENFORCEMENT
Date: 07/31/2007
Action: File review

Global Id: T0606500105
Action Type: ENFORCEMENT
Date: 01/28/2008
Action: File review

Global Id: T0606500105
Action Type: RESPONSE
Date: 11/01/2007
Action: Other Workplan

Global Id: T0606500105
Action Type: REMEDIATION
Date: 10/13/2005
Action: Soil Vapor Extraction (SVE)

Global Id: T0606500105
Action Type: ENFORCEMENT
Date: 05/18/2007
Action: File review

Global Id: T0606500105
Action Type: Other
Date: 05/24/1989
Action: Leak Stopped

LUST:
Global Id: T0606500105
Status: Open - Case Begin Date
Status Date: 09/25/1988

Global Id: T0606500105
Status: Open - Remediation
Status Date: 09/25/1988

Global Id: T0606500105
Status: Open - Site Assessment
Status Date: 05/24/1989

Global Id: T0606500105
Status: Open - Site Assessment
Status Date: 02/11/1992

Global Id: T0606500105
Status: Open - Remediation
Status Date: 10/13/2005

Global Id: T0606500105

ARCO CALIMESA #1958 (Continued) **S100178801**

Status: Open - Remediation
Status Date: 01/17/2007

Global Id: T0606500105
Status: Open - Remediation
Status Date: 05/18/2007

Global Id: T0606500105
Status: Open - Remediation
Status Date: 07/31/2007

Global Id: T0606500105
Status: Completed - Case Closed
Status Date: 08/26/2008

CERS HAZ WASTE:
Name: ARCO #83180
Address: 1216 CALIMESA BLVD
City,State,Zip: CALIMESA, CA 92320
Site ID: 92989
CERS ID: 10327234
CERS Description: Hazardous Waste Generator

CERS TANKS:
Name: ARCO #83180
Address: 1216 CALIMESA BLVD
City,State,Zip: CALIMESA, CA 92320
Site ID: 92989
CERS ID: 10327234
CERS Description: Underground Storage Tank

CORTESE:
Name: ARCO #1958
Address: 1216 CALIMESA BLVD
City,State,Zip: CALIMESA, CA 92320
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0606500105
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported

ARCO CALIMESA #1958 (Continued) **S100178801**

File Name: Active Open

Name: ARCO CALIMESA #1958
Address: 1216 CALIMESA BLVD.
City,State,Zip: CALIMESA, CA 92320
Region: CORTESE
Envirostor Id: Not reported
Global ID: T10000001842
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

NOTIFY 65:
Name: ARCO CALIMESA #1958
Address: 1216 CALIMESA BLVD.
City,State,Zip: CALIMESA, CA 92320
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Issue Date: 02/17/2010
Incident Description: Not reported
Global ID: Not reported
Status: Not reported

Name: CALIMESA ARCO #1958
Address: 1216 CALIMESA BLVD
City,State,Zip: CALIMESA, CA 92320
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Issue Date: Not reported
Incident Description: Not reported
Global ID: Not reported
Status: Not reported

Name: SERVICE STATION #1958
Address: 1216 CALIMESA
City,State,Zip: CALIMESA, CA 92320-1511

ARCO CALIMESA #1958 (Continued) **S100178801**

Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Issue Date: Not reported
Incident Description: Not reported
Global ID: Not reported
Status: Not reported

CERS:
Name: ARCO #83180
Address: 1216 CALIMESA BLVD
City,State,Zip: CALIMESA, CA 92320
Site ID: 92989
CERS ID: 10327234
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 92989
Site Name: Arco #83180
Violation Date: 04-05-2016
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to maintain on site an approved monitoring plan.
Violation Notes: Returned to compliance on 05/24/2016.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

Site ID: 92989
Site Name: Arco #83180
Violation Date: 04-07-2015
Citation: HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 05/05/2015.
Violation Division: Riverside County Department of Env Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 92989
Site Name: Arco #83180
Violation Date: 04-30-2019
Citation: 23 CCR 16 2641(h) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(h)
Violation Description: Failure to have an approved UST Monitoring Plan.
Violation Notes: Returned to compliance on 04/30/2019. OBSERVATION: Observed UST Monitoring Plan for the 87 tank to be inaccurate. During inspection observed 87 tank being monitored by annular sensor 302. CORRECTIVE ACTION: Owner/operator shall make the following corrections to the UST Monitoring Plan(s) and submit in CERS. In CERS for Tank #1 [87 tank] correct annular sensor to indicate 302. *Corrected while on site.*
Violation Division: Riverside County Department of Env Health
Violation Program: UST

ARCO CALIMESA #1958 (Continued) **S100178801**

Violation Source: CERS

Site ID: 92989
Site Name: Arco #83180
Violation Date: 04-07-2015
Citation: HSC 6.7 25291 - California Health and Safety Code, Chapter 6.7, Section(s) 25291
Violation Description: Failure to maintain under-dispenser containment, sumps, and/or other secondary containment in good condition and/or free of debris/liquid.
Violation Notes: Returned to compliance on 05/05/2015.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

Site ID: 92989
Site Name: Arco #83180
Violation Date: 04-05-2017
Citation: HSC 6.7 25290.1(e) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(e)
Violation Description: Failure to maintain the interstitial space such that a breach in the primary or secondary containment is detected before the liquid or vapor phase of the hazardous substance stored in the UST tank is released into the environment, i.e., vapor, pressure, hydrostatic (VPH) monitoring.
Violation Notes: Returned to compliance on 04/05/2017.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

Site ID: 92989
Site Name: Arco #83180
Violation Date: 04-05-2016
Citation: HSC 6.7 25286(a) - California Health and Safety Code, Chapter 6.7, Section(s) 25286(a)
Violation Description: Failure to submit an complete and accurate application for a permit to operate an underground storage tank, or for renewal of the permit.
Violation Notes: Returned to compliance on 06/03/2016.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

Site ID: 92989
Site Name: Arco #83180
Violation Date: 04-04-2018
Citation: 23 CCR 16 2665 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665
Violation Description: Failure to comply with one or more of the following: Failure to install or maintain a liquid-tight spill bucket. Have a minimum capacity of five gallons. Have a functional drain valve or other method for the removal of liquid from the spill bucket/spill container. Be resistant to galvanic corrosion.
Violation Notes: Returned to compliance on 04/25/2018.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

Site ID: 92989

ARCO CALIMESA #1958 (Continued) **S100178801**

Site Name:	Arco #83180
Violation Date:	04-05-2017
Citation:	23 CCR 16 2636(f)(1) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(1)
Violation Description:	Failure of the leak detection equipment to have an audible and visual alarm as required.
Violation Notes:	Returned to compliance on 04/05/2017.
Violation Division:	Riverside County Department of Env Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	92989
Site Name:	Arco #83180
Violation Date:	04-04-2018
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 07/30/2018.
Violation Division:	Riverside County Department of Env Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	92989
Site Name:	Arco #83180
Violation Date:	04-30-2019
Citation:	23 CCR 16 2665(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665(b)
Violation Description:	"Failure to submit a copy of the overfill prevention equipment inspection results on the G Overfill Prevention Equipment Inspection Report FormG to the UPA within 30 days after the inspection. "
Violation Notes:	Returned to compliance on 04/30/2019. OBSERVATION: An "Overfill Prevention Equipment Inspection Report Form"" was not submitted to this Department within 30 days after the completion of the test. Equipment was tested on 10/09/18. CORRECTIVE ACTION: Owner/operator shall immediately submit to this Department a complete and accurate copy of the Overfill Prevention Equipment Inspection Report Form for inspection completed on 10/09/18. Testing results provided while on site. *Corrected on site.* Note: This violation is being conditionally marked as "Corrected on site", plan check will review submitted results to determine compliance status.
Violation Division:	Riverside County Department of Env Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	92989
Site Name:	Arco #83180
Violation Date:	04-04-2018
Citation:	HSC 6.7 25284.2 - California Health and Safety Code, Chapter 6.7, Section(s) 25284.2
Violation Description:	Failure to test the spill bucket annually.
Violation Notes:	Returned to compliance on 04/25/2018.
Violation Division:	Riverside County Department of Env Health
Violation Program:	UST

ARCO CALIMESA #1958 (Continued) **S100178801**

Violation Source: CERS

Site ID: 92989
Site Name: Arco #83180
Violation Date: 04-08-2014
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Returned to compliance on 04/30/2014.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

Site ID: 92989
Site Name: Arco #83180
Violation Date: 04-08-2014
Citation: HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections
Violation Description: UST Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 04/30/2014.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

Site ID: 92989
Site Name: Arco #83180
Violation Date: 05-24-2016
Citation: HSC 6.7 25286(a) - California Health and Safety Code, Chapter 6.7, Section(s) 25286(a)
Violation Description: Failure to submit an complete and accurate application for a permit to operate an underground storage tank, or for renewal of the permit.
Violation Notes: Returned to compliance on 06/03/2016.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-04-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-04-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection

ARCO CALIMESA #1958 (Continued) **S100178801**

Eval Date: 04-04-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-05-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: CMD
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-05-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Monitoring Certification
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-07-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-07-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-07-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-08-2014
Violations Found: Yes
Eval Type: Routine done by local agency

ARCO CALIMESA #1958 (Continued) **S100178801**

Eval Notes:	Not reported
Eval Division:	Riverside County Department of Env Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-21-2020
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Liquid observed in 87 fill and turbine sumps and in dispenser 1/2. 2019 Annual Monitoring Cert Results obtained while on site. While on site tech added brine solution to 87 fill brine sensor reservoir.
Eval Division:	Riverside County Department of Env Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-30-2019
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Liquid observed in 87 fill sump. Observed slow leak occurring from components above shear valve at dispenser 11/12. While on site Manager made arrangements for dispenser to be looked at.
Eval Division:	Riverside County Department of Env Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-24-2016
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Follow up inspection
Eval Division:	Riverside County Department of Env Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-03-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Follow up inspection
Eval Division:	Riverside County Department of Env Health
Eval Program:	UST
Eval Source:	CERS

Enforcement Action:

Site ID:	92989
Site Name:	Arco #83180
Site Address:	1216 CALIMESA BLVD
Site City:	CALIMESA
Site Zip:	92320
Enf Action Date:	04-07-2015
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Riverside County Department of Env Health
Enf Action Program:	HMRRP

ARCO CALIMESA #1958 (Continued) **S100178801**

Enf Action Source: CERS

Site ID: 92989
Site Name: Arco #83180
Site Address: 1216 CALIMESA BLVD
Site City: CALIMESA
Site Zip: 92320
Enf Action Date: 04-07-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Riverside County Department of Env Health
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 92989
Site Name: Arco #83180
Site Address: 1216 CALIMESA BLVD
Site City: CALIMESA
Site Zip: 92320
Enf Action Date: 04-08-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Riverside County Department of Env Health
Enf Action Program: UST
Enf Action Source: CERS

Coordinates:
Site ID: 92989
Facility Name: Arco #83180
Env Int Type Code: HWG
Program ID: 10327234
Coord Name: Not reported
Ref Point Type Desc: Unknown
Latitude: 33.993416
Longitude: -117.057632

Affiliation:
Affiliation Type Desc: UST Permit Applicant
Entity Name: Bhupat Bhanvadia
Entity Title: President
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (909) 795-6449

Affiliation Type Desc: CUPA District
Entity Name: Riverside Cnty Env Health
Entity Title: Not reported
Affiliation Address: 4065 County Circle Drive, Room 104
Affiliation City: Riverside
Affiliation State: CA
Affiliation Country: Not reported

ARCO CALIMESA #1958 (Continued) **S100178801**

Affiliation Zip:	92503
Affiliation Phone:	(951) 358-5055
Affiliation Type Desc:	Environmental Contact
Entity Name:	Bhupat V. Bhanvadia
Entity Title:	Not reported
Affiliation Address:	14039 San Segundo Drive
Affiliation City:	Rancho Cucamonga
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91739
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Gopal Krishna Co., Inc.
Entity Title:	Not reported
Affiliation Address:	14039 San Segundo Drive
Affiliation City:	Rancho Cucamonga
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91739
Affiliation Phone:	(909) 795-6444
Affiliation Type Desc:	Parent Corporation
Entity Name:	Arco #83180
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Property Owner
Entity Name:	Gopal Krishna Company Inc.
Entity Title:	Not reported
Affiliation Address:	Address14039 San Segundo Drive
Affiliation City:	Ranch Cucamonga
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91739
Affiliation Phone:	(909) 795-6444
Affiliation Type Desc:	UST Tank Operator
Entity Name:	Gopal Krishna Company Inc.
Entity Title:	Not reported
Affiliation Address:	14039 San Segundo Drive
Affiliation City:	Rancho Cucamonga
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91739
Affiliation Phone:	(909) 795-6444
Affiliation Type Desc:	Operator
Entity Name:	Bhupat Bhanvadia
Entity Title:	Not reported
Affiliation Address:	Not reported

ARCO CALIMESA #1958 (Continued) **S100178801**

Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(909) 795-6444
Affiliation Type Desc:	UST Tank Owner
Entity Name:	Gopal Krishna Company Inc.
Entity Title:	Not reported
Affiliation Address:	14039 San Segundo Drive
Affiliation City:	Rancho Cucamonga
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91739
Affiliation Phone:	(909) 795-6444
Affiliation Type Desc:	Document Preparer
Entity Name:	Patrick Kanchy
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	14039 San Segundo Dr
Affiliation City:	Rancho Cucamonga
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91739
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Bhupat Bhanvadia
Entity Title:	President
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	UST Property Owner Name
Entity Name:	Gopal Krishna Company Inc.
Entity Title:	Not reported
Affiliation Address:	14039 San Segundo Drive
Affiliation City:	Rancho Cucamonga
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91739
Affiliation Phone:	(909) 795-6444

ARCO CALIMESA #1958 (Continued) **S100178801**

Name: ARCO CALIMESA #1958
Address: 1216 CALIMESA BLVD.
City,State,Zip: CALIMESA, CA 92320
Site ID: 188845
CERS ID: T10000001842
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: SHARON BOLTINGHOUSE - RIVERSIDE COUNTY LOP
Entity Title: Not reported
Affiliation Address: 3880 LEMON ST SUITE 200
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9519558980

Name: ARCO #1958
Address: 1216 CALIMESA BLVD
City,State,Zip: CALIMESA, CA 92320
Site ID: 194182
CERS ID: T0606500105
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: VALERIE JAHN-BULL - SANTA ANA RWQCB (REGION 8)
Entity Title: Not reported
Affiliation Address: 3737 MAIN STREET, SUITE 500
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9517824903

B10 **ZIERT MIKE** **EDR Hist Auto** **1021398777**
SE **1216 CALIMICA BLVD** **N/A**
< 1/8 **CALIMESA, CA 92320**
0.123 mi.
652 ft. **Site 7 of 12 in cluster B**

Relative: EDR Hist Auto
Higher

Actual: **2407 ft.**

Year:	Name:	Type:
1969	PREMUS DON	Gasoline Service Stations
1970	PREMUS DON	Gasoline Service Stations
1971	PREMUS DON	Gasoline Service Stations
1976	ZIERT MIKE	Gasoline Service Stations
1977	ZIERT MIKE	Gasoline Service Stations
1978	ZIERT MIKE	Gasoline Service Stations
1979	ZIERT MIKE	Gasoline Service Stations
1980	ZIERT MIKE	Gasoline Service Stations
1982	CALIMESA ARCO & AM/PM	Gasoline Service Stations
1983	CALIMESA ARCO & AM/PM	Gasoline Service Stations
1985	CALIMESA ARCO & AM/PM	Gasoline Service Stations
1986	CALIMESA ARCO & AM/PM	Gasoline Service Stations

ZIERT MIKE (Continued) **1021398777**

1987	CALIMESA ARCO & AM/PM	Gasoline Service Stations
1988	CALIMESA ARCO & AM/PM	Gasoline Service Stations
1989	CALIMESA ARCO & AM/PM	Gasoline Service Stations, NEC
1990	KOFDARALI MIMI MARKET	Gasoline Service Stations, NEC
1991	KOFDARALI MIMI MARKET	Gasoline Service Stations, NEC
1992	KOFDARALI MINI MARKET	Gasoline Service Stations, NEC
1993	KOFDARALI MINI MARKET	Gasoline Service Stations, NEC
1994	KOFDARALI MINI MARKET	Gasoline Service Stations, NEC
1995	KOFDARALI MINI MARKET	Gasoline Service Stations, NEC
1996	KOFDARALI MINI MARKET	Gasoline Service Stations, NEC
1997	KOFDARALI MINI MARKET	Gasoline Service Stations, NEC
1998	CALAMISA SERVICE STATION INC	Gasoline Service Stations, NEC
2001	GOPAL KRISHNA CO INC	Gasoline Service Stations, NEC
2001	ARCO AM PM	Gasoline Service Stations
2002	ARCO AM PM	Gasoline Service Stations
2002	GOPAL KRISHNA CO INC	Grocery Stores
2003	GOPAL KRISHNA CO INC	Gasoline Service Stations, NEC
2004	GOPAL KRISHNA CO INC	Grocery Stores
2005	GOPAL KRISHNA CO INC	Convenience Stores
2006	GOPAL KRISHNA CO INC	Gasoline Service Stations, NEC
2007	GOPAL KRISHNA CO INC	Convenience Stores
2008	GOPAL KRISHNA CO INC	Convenience Stores
2009	GOPAL KRISHNA CO INC	Convenience Stores
2010	GOPAL KRISHNA CO INC	Convenience Stores
2011	ARCO	Gasoline Service Stations, NEC
2012	ARCO	Gasoline Service Stations, NEC
2013	ARCO	Gasoline Service Stations, NEC
2014	ARCO	Gasoline Service Stations, NEC

B11 **JAMES OLIVER HYATT** **HIST UST** **U001574618**
SE **1216 CALIMESA BLVD** **N/A**
< 1/8 **CALIMESA, CA 92320**
0.123 mi.
652 ft. **Site 8 of 12 in cluster B**

Relative: **Higher**

Actual: **2407 ft.**

HIST UST:

Name:	JAMES OLIVER HYATT
Address:	1216 CALIMESA BLVD
City,State,Zip:	CALIMESA, CA 92320
File Number:	0001F401
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0001F401.pdf
Region:	STATE
Facility ID:	00000026680
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	0000000000
Owner Name:	ARCO PETROLEUM PRODUCTS CO.
Owner Address:	515 SOUTH FLOWER STREET
Owner City,St,Zip:	LOS ANGELES, CA 90071
Total Tanks:	0005
Tank Num:	001
Container Num:	0000000001
Year Installed:	1979
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	06

JAMES OLIVER HYATT (Continued) **U001574618**

Container Construction Thickness: Not reported
Leak Detection: Stock Inventor, 10

Tank Num: 002
Container Num: 0000000002
Year Installed: 1973
Tank Capacity: 00006000
Tank Used for: PRODUCT
Type of Fuel: 06
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor, 10

Tank Num: 003
Container Num: 0000000003
Year Installed: 1966
Tank Capacity: 00006000
Tank Used for: PRODUCT
Type of Fuel: 06
Container Construction Thickness: 0000240
Leak Detection: Stock Inventor, 10

Tank Num: 004
Container Num: 0000000004
Year Installed: 1966
Tank Capacity: 00004000
Tank Used for: PRODUCT
Type of Fuel: 06
Container Construction Thickness: 0000167
Leak Detection: Stock Inventor, 10

Tank Num: 005
Container Num: 0000000005
Year Installed: 1966
Tank Capacity: 00004000
Tank Used for: PRODUCT
Type of Fuel: 06
Container Construction Thickness: 0000167
Leak Detection: Stock Inventor, 10

Click here for Geo Tracker PDF:

C12 **DOLLAR TREE #7259** **CERS HAZ WASTE** **S112974752**
NNE **1126 CALIMESA BLVD** **HAZNET** **N/A**
1/8-1/4 **CALIMESA, CA 92320** **CERS**
0.130 mi. **HWTS**
687 ft. **Site 1 of 8 in cluster C**

Relative: Higher
Actual: 2406 ft.

CERS HAZ WASTE:
Name: DOLLAR TREE #7259
Address: 1126 CALIMESA BLVD
City,State,Zip: CALIMESA, CA 92320
Site ID: 380896
CERS ID: 10329109
CERS Description: Hazardous Waste Generator

HAZNET:
Name: INTERRA VISION CALIMESA LLC

DOLLAR TREE #7259 (Continued) **S112974752**

Address:	1126 CALIMESA BLVD
Address 2:	Not reported
City,State,Zip:	CALIMESA, CA 92320
Contact:	BILL SANTIAGO
Telephone:	6126732900
Mailing Name:	Not reported
Mailing Address:	737 N MICHIGAN AVE STE 1050
Year:	2008
Gepaid:	CAC002637483
TSD EPA ID:	CAT080013352
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.66

Additional Info:

Year:	2008
Gen EPA ID:	CAC002637483
Shipment Date:	20081211
Creation Date:	2/4/2009 18:30:35
Receipt Date:	20081211
Manifest ID:	000465491JJK
Trans EPA ID:	CAD082699562
Trans Name:	NRC ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.66
Waste Quantity:	200
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

CERS:

Name:	DOLLAR TREE #7259
Address:	1126 CALIMESA BLVD
City,State,Zip:	CALIMESA, CA 92320
Site ID:	380896
CERS ID:	10329109
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	380896
Site Name:	Dollar Tree #7259

DOLLAR TREE #7259 (Continued) **S112974752**

Violation Date: 06-21-2017
Citation: Un-Specified
Violation Description: Business Plan Program - Operations/Maintenance - General Local Ordinance
Violation Notes: Returned to compliance on 09/07/2017.
Violation Division: Riverside County Department of Env Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 380896
Site Name: Dollar Tree #7259
Violation Date: 12-27-2013
Citation: HSC 6.11 25404.1 - California Health and Safety Code, Chapter 6.11, Section(s) 25404.1
Violation Description: Failure to obtain and/or maintain an active hazardous waste generator permit.
Violation Notes: Returned to compliance on 01/21/2014.
Violation Division: Riverside County Department of Env Health
Violation Program: HW
Violation Source: CERS

Site ID: 380896
Site Name: Dollar Tree #7259
Violation Date: 07-21-2017
Citation: Un-Specified
Violation Description: Business Plan Program - Operations/Maintenance - General Local Ordinance
Violation Notes: Returned to compliance on 09/07/2017.
Violation Division: Riverside County Department of Env Health
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-18-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-18-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-21-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Generator inspection
Eval Division: Riverside County Department of Env Health

DOLLAR TREE #7259 (Continued) **S112974752**

Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-21-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Handler inspection
Eval Division: Riverside County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-21-2017
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Follow up inspection
Eval Division: Riverside County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-07-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Follow up inspection
Eval Division: Riverside County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-27-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Generator inspection
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS

Enforcement Action:
Site ID: 380896
Site Name: Dollar Tree #7259
Site Address: 1126 CALIMESA BLVD
Site City: CALIMESA
Site Zip: 92320
Enf Action Date: 12-27-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Riverside County Department of Env Health
Enf Action Program: HW
Enf Action Source: CERS

Coordinates:
Site ID: 380896
Facility Name: Dollar Tree #7259

DOLLAR TREE #7259 (Continued) **S112974752**

Env Int Type Code:	HWG
Program ID:	10329109
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.997000
Longitude:	-117.058980

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	Riverside Cnty Env Health
Entity Title:	Not reported
Affiliation Address:	4065 County Circle Drive, Room 104
Affiliation City:	Riverside
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92503
Affiliation Phone:	(951) 358-5055

Affiliation Type Desc:	Environmental Contact
Entity Name:	Stephanie Caiati
Entity Title:	Not reported
Affiliation Address:	500 Volvo Parkway
Affiliation City:	Chesapeake
Affiliation State:	VA
Affiliation Country:	Not reported
Affiliation Zip:	23320
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	Angela Jones
Entity Title:	EH&S Specialist
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Document Preparer
Entity Name:	Angela Jones
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	500 Volvo Parkway
Affiliation City:	Chesapeake
Affiliation State:	VA
Affiliation Country:	Not reported
Affiliation Zip:	23320
Affiliation Phone:	Not reported

DOLLAR TREE #7259 (Continued) **S112974752**

Affiliation Type Desc:	Operator
Entity Name:	Dollar Tree Stores, Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(757) 321-5000

Affiliation Type Desc:	Parent Corporation
Entity Name:	Dollar Tree Stores, Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	Dollar Tree Stores, Inc.
Entity Title:	Not reported
Affiliation Address:	500 Volvo Parkway
Affiliation City:	Chesapeake
Affiliation State:	VA
Affiliation Country:	United States
Affiliation Zip:	23320
Affiliation Phone:	(757) 321-5000

HWTS:

Name:	INTERRA VISION CALIMESA LLC
Address:	1126 CALIMESA BLVD
Address 2:	Not reported
City,State,Zip:	CALIMESA, CA 92320
EPA ID:	CAC002637483
Inactive Date:	06/09/2009
Create Date:	12/10/2008
Last Act Date:	07/15/2009
Mailing Name:	Not reported
Mailing Address:	737 N MICHIGAN AVE STE 1050
Mailing Address 2:	Not reported
Mailing City,State,Zip:	CHICAGO, IL 60611
Owner Name:	INTERRA VISION CALIMESA LLC
Owner Address:	737 N MICHIGAN AVE STE 1050
Owner Address 2:	Not reported
Owner City,State,Zip:	CHICAGO, IL 60611
Contact Name:	BILL SANTIAGO
Contact Address:	737 N MICHIGAN AVE STE 1050
Contact Address 2:	Not reported
City,State,Zip:	CHICAGO, IL 60611

C13 **DOLLAR TREE 07259** **RCRA NonGen / NLR** **1024860186**
NNE **1126 CALIMESA BLVD** **CAL000428246**
1/8-1/4 **CALIMESA, CA 92320**
0.130 mi.
687 ft. **Site 2 of 8 in cluster C**

Relative: **Higher**

Actual: **2406 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		2017-06-08 00:00:00.0
Handler Name:	DOLLAR TREE 07259	
Handler Address:		1126 CALIMESA BLVD
Handler City,State,Zip:		CALIMESA, CA 92320
EPA ID:		CAL000428246
Contact Name:		ANGELA JONES
Contact Address:		500 VOLVO PKWY
Contact City,State,Zip:		CHESAPEAKE, VA 23320-1604
Contact Telephone:		757-321-5761
Contact Fax:		757-321-5160
Contact Email:		AJONES@DOLLARTREE.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		500 VOLVO PKWY
Mailing City,State,Zip:		CHESAPEAKE, VA 23320-1604
Owner Name:		DOLLAR TREE STORES, INC.
Owner Type:		Other
Operator Name:		ANGELA JONES
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

DOLLAR TREE 07259 (Continued) **1024860186**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-12-20 13:52:59.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	DOLLAR TREE STORES, INC.
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	500 VOLVO PKWY
Owner/Operator City,State,Zip:	CHESAPEAKE, VA 23320-1604
Owner/Operator Telephone:	757-321-5000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	ANGELA JONES
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	500 VOLVO PKWY
Owner/Operator City,State,Zip:	CHESAPEAKE, VA 23320-1604
Owner/Operator Telephone:	757-321-5761
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

DOLLAR TREE 07259 (Continued) **1024860186**

Historic Generators:
Receive Date: 2017-06-08 00:00:00.0
Handler Name: DOLLAR TREE 07259
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

A14 **STATER BROS MARKETS #71** **RCRA NonGen / NLR** **1024820692**
East **1155 CALIMESA BLVD** **CAL000334578**
1/8-1/4 **CALIMESA, CA 92320**
0.138 mi.
731 ft. **Site 4 of 5 in cluster A**

Relative: **Higher**
Actual: **2410 ft.**

RCRA NonGen / NLR:
Date Form Received by Agency: 2008-07-17 00:00:00.0
Handler Name: STATER BROS MARKETS #71
Handler Address: 1155 CALIMESA BLVD
Handler City,State,Zip: CALIMESA, CA 92320
EPA ID: CAL000334578
Contact Name: CHERYL SKALICKY
Contact Address: 301 S. TIPPECANOE AVE.
Contact City,State,Zip: SAN BERNARDINO, CA 92408
Contact Telephone: 909-733-5288
Contact Fax: 909-733-4288
Contact Email: CHERYL.SKALICKY@STATERBROS.COM
Contact Title: Not reported
EPA Region: 09
Land Type: Not reported
Federal Waste Generator Description: Not a generator, verified
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Handler Activities
State District Owner: Not reported
State District: Not reported
Mailing Address: PO BOX 150
Mailing City,State,Zip: SAN BERNARDINO, CA 92402-0000
Owner Name: STATER BROS MARKETS

STATER BROS MARKETS #71 (Continued) **1024820692**

Owner Type:	Other
Operator Name:	CHERYL SKALICKY
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-09-05 20:30:30.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No

STATER BROS MARKETS #71 (Continued) **1024820692**

Sub-Part P Indicator: No

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: CHERYL SKALICKY
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 301 S. TIPPECANOE AVE.
Owner/Operator City,State,Zip: SAN BERNARDINO, CA 92408
Owner/Operator Telephone: 909-733-5288
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: STATER BROS MARKETS
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 301 S TIPPECANOE AVE
Owner/Operator City,State,Zip: SAN BERNARDINO, CA 92408-0121
Owner/Operator Telephone: 909-733-5000
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2008-07-17 00:00:00.0
Handler Name: STATER BROS MARKETS #71
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 45291
NAICS Description: WAREHOUSE CLUBS AND SUPERCENTERS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

A15 **STATER BROS MARKETS #71** **CERS HAZ WASTE** **S107136922**
East **1155 CALIMESA BLVD** **HAZNET** **N/A**
1/8-1/4 **CALIMESA, CA 92320** **CERS**
0.138 mi. **HWTS**
731 ft. **Site 5 of 5 in cluster A**

Relative: Higher

Actual: 2410 ft.

CERS HAZ WASTE:
Name: STATER BROS. MARKETS 071
Address: 1155 CALIMESA BLVD
City,State,Zip: CALIMESA, CA 92320
Site ID: 71294
CERS ID: 10325293
CERS Description: Hazardous Waste Generator

HAZNET:
Name: STATER BROS MARKETS #71
Address: 1155 CALIMESA BLVD
Address 2: Not reported
City,State,Zip: CALIMESA, CA 92320
Contact: CHERYL SKALICKY
Telephone: 9097335288
Mailing Name: Not reported
Mailing Address: PO BOX 150

Year: 2016
Gepaid: CAL000334578
TSD EPA ID: AZR000515924
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.0875

Year: 2016
Gepaid: CAL000334578
TSD EPA ID: CAD028409019
CA Waste Code: 331 - Off-specification, aged or surplus organics
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.004

Year: 2016
Gepaid: CAL000334578
TSD EPA ID: CAD009007626
CA Waste Code: 151 - Asbestos containing waste
Disposal Method: H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons: 0.46

CERS:
Name: STATER BROS. MARKETS 071
Address: 1155 CALIMESA BLVD
City,State,Zip: CALIMESA, CA 92320
Site ID: 71294
CERS ID: 10325293
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 71294

STATER BROS MARKETS #71 (Continued) **S107136922**

Site Name: Stater Bros. Markets 071
Violation Date: 01-21-2016
Citation: HSC 6.5 25163(a) - California Health and Safety Code, Chapter 6.5, Section(s) 25163(a)
Violation Description: Failure to use a registered hazardous waste hauler to transport hazardous waste.
Violation Notes: Returned to compliance on 02/08/2016.
Violation Division: Riverside County Department of Env Health
Violation Program: HW
Violation Source: CERS

Site ID: 71294
Site Name: Stater Bros. Markets 071
Violation Date: 01-21-2016
Citation: 22 CCR 12 66262.34(d) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(d)
Violation Description: Failure to dispose of hazardous waste within 180 days (or 270 if waste is transported over 200 miles) for the generator who generates less than 1000 kilogram per month, but more than 100 kilograms per month.
Violation Notes: Returned to compliance on 02/08/2016.
Violation Division: Riverside County Department of Env Health
Violation Program: HW
Violation Source: CERS

Site ID: 71294
Site Name: Stater Bros. Markets 071
Violation Date: 01-21-2016
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 01/21/2016. Approved HMBP onsite
Violation Division: Riverside County Department of Env Health
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-21-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-21-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-26-2018
Violations Found: No

STATER BROS MARKETS #71 (Continued) **S107136922**

Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-26-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS

Enforcement Action:
Site ID: 71294
Site Name: Stater Bros. Markets 071
Site Address: 1155 CALIMESA BLVD
Site City: CALIMESA
Site Zip: 92320
Enf Action Date: 01-21-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Riverside County Department of Env Health
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 71294
Site Name: Stater Bros. Markets 071
Site Address: 1155 CALIMESA BLVD
Site City: CALIMESA
Site Zip: 92320
Enf Action Date: 01-21-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Riverside County Department of Env Health
Enf Action Program: HW
Enf Action Source: CERS

Coordinates:
Site ID: 71294
Facility Name: Stater Bros. Markets 071
Env Int Type Code: HWG
Program ID: 10325293
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.996140
Longitude: -117.056980

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Riverside Cnty Env Health
Entity Title: Not reported

STATER BROS MARKETS #71 (Continued) **S107136922**

Affiliation Address:	4065 County Circle Drive, Room 104
Affiliation City:	Riverside
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92503
Affiliation Phone:	(951) 358-5055
Affiliation Type Desc:	Environmental Contact
Entity Name:	Chris Ramirez
Entity Title:	Not reported
Affiliation Address:	P O BOX 150
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92402
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	1155 Calimesa Blvd
Affiliation City:	Calimesa
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92320
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Stater Bros. Markets
Entity Title:	Not reported
Affiliation Address:	P O BOX 150
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92402
Affiliation Phone:	(909) 733-5000
Affiliation Type Desc:	Identification Signer
Entity Name:	Chris Ramirez
Entity Title:	Supervisor of Support Services
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Property Owner
Entity Name:	Stater Bros. Markets
Entity Title:	Not reported
Affiliation Address:	P O BOX 150
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92402
Affiliation Phone:	(909) 733-5000

STATER BROS MARKETS #71 (Continued) **S107136922**

Affiliation Type Desc:	Document Preparer
Entity Name:	Chris Ramirez
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	Stater Bros. Markets 071
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(909) 795-2224

Affiliation Type Desc:	Parent Corporation
Entity Name:	Stater Bros. Markets
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

HWTS:

Name:	STATER BROS MARKETS #71
Address:	1155 CALIMESA BLVD
Address 2:	Not reported
City,State,Zip:	CALIMESA, CA 92320
EPA ID:	CAL000334578
Inactive Date:	Not reported
Create Date:	07/17/2008
Last Act Date:	09/17/2020
Mailing Name:	Not reported
Mailing Address:	PO BOX 150
Mailing Address 2:	Not reported
Mailing City,State,Zip:	SAN BERNARDINO, CA 924020000
Owner Name:	STATER BROS MARKETS
Owner Address:	301 S TIPPECANOE AVE
Owner Address 2:	Not reported
Owner City,State,Zip:	SAN BERNARDINO, CA 924080121
Contact Name:	JAMIE JACOBSON
Contact Address:	301 S. TIPPECANOE AVE.
Contact Address 2:	Not reported
City,State,Zip:	SAN BERNARDINO, CA 92408

NAICS:

EPA ID:	CAL000334578
Create Date:	2008-07-17 09:06:24.883
NAICS Code:	45291

STATER BROS MARKETS #71 (Continued) **S107136922**

NAICS Description:	Warehouse Clubs and Superstores
Issued EPA ID Date:	2008-07-17 09:06:24.87000
Inactive Date:	Not reported
Facility Name:	STATER BROS MARKETS #71
Facility Address:	1155 CALIMESA BLVD
Facility Address 2:	Not reported
Facility City:	CALIMESA
Facility County:	Not reported
Facility State:	CA
Facility Zip:	92320

C16 **TRACTOR SUPPLY COMPANY #2134** **RCRA NonGen / NLR** **1024857566**
NE **1060 CALIMESA BLVD** **CAL000423074**
1/8-1/4 **CALIMESA, CA 92320**
0.141 mi.
742 ft. **Site 3 of 8 in cluster C**

Relative: **Higher**

Actual: **2408 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	2016-12-21 00:00:00.0
Handler Name:	TRACTOR SUPPLY COMPANY #2134
Handler Address:	1060 CALIMESA BLVD
Handler City,State,Zip:	CALIMESA, CA 92320
EPA ID:	CAL000423074
Contact Name:	BRIAN SPEARS
Contact Address:	5401 VIRGINIA WAY
Contact City,State,Zip:	BRENTWOOD, TN 37027-0000
Contact Telephone:	615-440-4115
Contact Fax:	615-484-4115
Contact Email:	HAZMAT@TRACTORSUPPLY.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	5401 VIRGINIA WAY
Mailing City,State,Zip:	BRENTWOOD, TN 37027-0000
Owner Name:	TRACTOR SUPPLY COMPANY
Owner Type:	Other
Operator Name:	BRIAN SPEARS
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes

TRACTOR SUPPLY COMPANY #2134 (Continued) **1024857566**

Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-09-07 19:35:21.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	TRACTOR SUPPLY COMPANY
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	5401 VIRGINIA WAY
Owner/Operator City,State,Zip:	BRENTWOOD, TN 37027-0000
Owner/Operator Telephone:	615-440-4000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

TRACTOR SUPPLY COMPANY #2134 (Continued) **1024857566**

Owner/Operator Indicator:	Operator
Owner/Operator Name:	BRIAN SPEARS
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	5401 VIRGINIA WAY
Owner/Operator City,State,Zip:	BRENTWOOD, TN 37027-0000
Owner/Operator Telephone:	615-440-4115
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2016-12-21 00:00:00.0
Handler Name:	TRACTOR SUPPLY COMPANY #2134
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	453998
NAICS Description:	ALL OTHER MISCELLANEOUS STORE RETAILERS (EXCEPT TOBACCO STORES)

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

C17 **TRACTOR SUPPLY COMPANY #2134** **CERS HAZ WASTE** **S119087868**
NE **1060 CALIMESA BLVD** **HAZNET** **N/A**
1/8-1/4 **CALIMESA, CA 92320** **NPDES**
0.141 mi. **CIWQS**
742 ft. **Site 4 of 8 in cluster C** **CERS**
HWTS

Relative:
Higher

Actual:
2408 ft.

CERS HAZ WASTE:

Name:	TRACTOR SUPPLY COMPANY STORE #2134 - CALIMESA
Address:	1060 CALIMESA BLVD
City,State,Zip:	CALIMESA, CA 92320
Site ID:	416850
CERS ID:	10724371
CERS Description:	Hazardous Waste Generator

HAZNET:

Name:	TRACTOR SUPPLY COMPANY #2134
Address:	1060 CALIMESA BLVD

TRACTOR SUPPLY COMPANY #2134 (Continued) **S119087868**

Address 2:	Not reported
City,State,Zip:	CALIMESA, CA 370270000
Contact:	JOE SCHOLL
Telephone:	6154404307
Mailing Name:	Not reported
Mailing Address:	5401 VIRGINIA WAY
Year:	2019
Gepaid:	CAL000423074
TSD EPA ID:	NVD980895338
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.03300
Year:	2019
Gepaid:	CAL000423074
TSD EPA ID:	AZR000515924
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.05350
Year:	2019
Gepaid:	CAL000423074
TSD EPA ID:	CAD008364432
CA Waste Code:	791 - Liquids with pH <= 2
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.00050
Year:	2019
Gepaid:	CAL000423074
TSD EPA ID:	CAD008364432
CA Waste Code:	122 - Alkaline solution without metals pH >= 12.5
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.01950
Year:	2019
Gepaid:	CAL000423074
TSD EPA ID:	CAD008364432
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.03100
Year:	2019
Gepaid:	CAL000423074
TSD EPA ID:	AZR000515924
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.03750
Year:	2018
Gepaid:	CAL000423074

TRACTOR SUPPLY COMPANY #2134 (Continued) **S119087868**

TSD EPA ID: CAD008364432
CA Waste Code: 331 - Off-specification, aged or surplus organics
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.10050

Year: 2018
Gepaid: CAL000423074
TSD EPA ID: ARD069748192
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.04400

Year: 2018
Gepaid: CAL000423074
TSD EPA ID: CAD008364432
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.00400

Year: 2018
Gepaid: CAL000423074
TSD EPA ID: ARD069748192
CA Waste Code: 331 - Off-specification, aged or surplus organics
Disposal Method: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Tons: 0.05400

Click this hyperlink while viewing on your computer to access
7 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:
Year: 2017
Gen EPA ID: CAL000423074

Shipment Date: 20171003
Creation Date: 10/9/2018 18:30:56
Receipt Date: 20171108
Manifest ID: 011240910FLE
Trans EPA ID: MAD039322250
Trans Name: CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID: CAR000187922
Trans 2 Name: RUST & SONS TRUCKING
TSDF EPA ID: ARD069748192
Trans Name: CLEAN HARBORS EL DORADO LLC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 141 - Off-specification, aged, or surplus inorganics
RCRA Code: Not reported
Meth Code: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons: 0.0085
Waste Quantity: 17
Quantity Unit: P
Additional Code 1: Not reported

TRACTOR SUPPLY COMPANY #2134 (Continued) **S119087868**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171003
Creation Date:	10/9/2018 18:30:56
Receipt Date:	20171108
Manifest ID:	011240910FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	CAR000187922
Trans 2 Name:	RUST & SONS TRUCKING
TSDF EPA ID:	ARD069748192
Trans Name:	CLEAN HARBORS EL DORADO LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.028
Waste Quantity:	56
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171003
Creation Date:	10/9/2018 18:30:56
Receipt Date:	20171108
Manifest ID:	011240910FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	CAR000187922
Trans 2 Name:	RUST & SONS TRUCKING
TSDF EPA ID:	ARD069748192
Trans Name:	CLEAN HARBORS EL DORADO LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D035
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.015
Waste Quantity:	30
Quantity Unit:	P
Additional Code 1:	D007
Additional Code 2:	D006
Additional Code 3:	D005
Additional Code 4:	D001
Additional Code 5:	Not reported
Shipment Date:	20171003
Creation Date:	10/9/2018 18:30:56
Receipt Date:	20171108

TRACTOR SUPPLY COMPANY #2134 (Continued) **S119087868**

Manifest ID:	011240910FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	CAR000187922
Trans 2 Name:	RUST & SONS TRUCKING
TSDF EPA ID:	ARD069748192
Trans Name:	CLEAN HARBORS EL DORADO LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	U279
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	D007
Additional Code 2:	D006
Additional Code 3:	D005
Additional Code 4:	D001
Additional Code 5:	Not reported

Shipment Date:	20170804
Creation Date:	10/4/2018 18:30:16
Receipt Date:	20170824
Manifest ID:	006129028SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBOR
TSDF EPA ID:	NED981723513
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES IN
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D008
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	D007
Additional Code 2:	D006
Additional Code 3:	D005
Additional Code 4:	D001
Additional Code 5:	Not reported

Shipment Date:	20170804
Creation Date:	6/13/2018 18:31:35
Receipt Date:	20170822
Manifest ID:	006129029SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS OF BUTTONWILLOW
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

TRACTOR SUPPLY COMPANY #2134 (Continued) **S119087868**

Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170426
Creation Date:	7/13/2018 18:30:14
Receipt Date:	20170508
Manifest ID:	009930897FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICE INC
Trans 2 EPA ID:	ALR000007237
Trans 2 Name:	ACTION RESOURCES
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D016
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.016
Waste Quantity:	32
Quantity Unit:	P
Additional Code 1:	D014
Additional Code 2:	D005
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170426
Creation Date:	7/13/2018 18:30:14
Receipt Date:	20170508
Manifest ID:	009930897FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICE INC
Trans 2 EPA ID:	ALR000007237
Trans 2 Name:	ACTION RESOURCES
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D026
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.013
Waste Quantity:	26
Quantity Unit:	P
Additional Code 1:	D010
Additional Code 2:	D004

TRACTOR SUPPLY COMPANY #2134 (Continued) **S119087868**

Additional Code 3:	D001
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170126
Creation Date:	5/11/2018 18:31:59
Receipt Date:	20170207
Manifest ID:	005865327SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKR000023085
Trans 2 Name:	BASIN ENVIROMENTAL
TSDF EPA ID:	AZD049318009
Trans Name:	CLEAN HARBORS ARIZONA
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170126
Creation Date:	5/11/2018 18:31:59
Receipt Date:	20170208
Manifest ID:	005865325SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	MOD095038998
Trans 2 Name:	TRISTATE MOTOR TRANSIT
TSDF EPA ID:	UTD991301748
Trans Name:	CLEAN HARBORS GRASSY MOUNTAIN LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	291 - Latex waste
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

NPDES:

Name:	TRACTOR SUPPLY CALIMESA
Address:	1060 CALIMESA BLVD
City,State,Zip:	CALIMESA, CA 92320

TRACTOR SUPPLY COMPANY #2134 (Continued) **S119087868**

Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	8 33C376879
Regulatory Measure Type:	Construction
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Terminated
Status Date:	02/01/2017
Operator Name:	CALIMESA SEI LLC
Operator Address:	C/O SOBEL ENTERPRISES INC
Operator City:	BEVERLY HILLS
Operator State:	California
Operator Zip:	90212

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	474945
Order Number:	Not reported
Regulatory Measure Type:	Construction
Place ID:	Not reported
WDID:	8 33C376879
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	01/25/2017
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	07/15/2016
Processed Date:	07/19/2016
Status:	Terminated
Status Date:	02/01/2017
Place Size:	4.05
Place Size Unit:	Acres
Contact:	BRADLEY SOBEL
Contact Title:	Not reported
Contact Phone:	310-277-4697
Contact Phone Ext:	Not reported
Contact Email:	SOBELDEVELOPMENT@EARTHLINK.NET

TRACTOR SUPPLY COMPANY #2134 (Continued) **S119087868**

Operator Name:	CALIMESA SEI LLC
Operator Address:	C/O SOBEL ENTERPRISES INC
Operator City:	BEVERLY HILLS
Operator State:	California
Operator Zip:	90212
Operator Contact:	BRADLEY SOBEL
Operator Contact Title:	Not reported
Operator Contact Phone:	310-277-4697
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	SOBELDEVELOPMENT@EARTHLINK.NET
Operator Type:	Private Business
Developer:	CALIMESA SEI LLC
Developer Address:	C/O SOBEL ENTERPRISES INC
Developer City:	BEVERLY HILLS
Developer State:	California
Developer Zip:	90212
Developer Contact:	BRADLEY SOBEL
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	N
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	N
Constype Below Ground Ind:	N
Constype Cable Line Ind:	N
Constype Comm Line Ind:	N
Constype Commertial Ind:	Y
Constype Electrical Line Ind:	N
Constype Gas Line Ind:	N
Constype Industrial Ind:	N
Constype Other Description:	Not reported
Constype Other Ind:	N
Constype Recons Ind:	N
Constype Residential Ind:	N
Constype Transport Ind:	N
Constype Utility Description:	Not reported
Constype Utility Ind:	N
Constype Water Sewer Ind:	N
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Not reported
Certifier:	BRADLEY SOBEL
Certifier Title:	President
Certification Date:	15-JUL-16
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000002
Status:	Terminated
Agency Number:	0
Region:	8
Regulatory Measure ID:	474945
Order Number:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 33C376879
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported

TRACTOR SUPPLY COMPANY #2134 (Continued) **S119087868**

Effective Date Of Regulatory Measure:	07/19/2016
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	01/25/2017
Discharge Name:	CALIMESA SEI LLC
Discharge Address:	C/O SOBEL ENTERPRISES INC
Discharge City:	BEVERLY HILLS
Discharge State:	California
Discharge Zip:	90212
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported

TRACTOR SUPPLY COMPANY #2134 (Continued) **S119087868**

Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

CIWQS:

Name:	TRACTOR SUPPLY CALIMESA
Address:	1060 CALIMESA BLVD
City,State,Zip:	CALIMESA, CA 92320
Agency:	CALIMESA SEI LLC
Agency Address:	C/O SOBEL ENTERPRISES INC 136 S EL CAMINO DRIVE 214, Beverly Hills, CA 90212
Place/Project Type:	Construction - Commercial
SIC/NAICS:	Not reported
Region:	8
Program:	CONSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water construction
Order Number:	2009-0009-DWQ
WDID:	8 33C376879
NPDES Number:	CAS000002
Adoption Date:	Not reported
Effective Date:	07/19/2016
Termination Date:	01/25/2017
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	33.99877
Longitude:	-117.05979

CERS:

Name:	TRACTOR SUPPLY COMPANY STORE #2134 - CALIMESA
Address:	1060 CALIMESA BLVD
City,State,Zip:	CALIMESA, CA 92320
Site ID:	416850
CERS ID:	10724371
CERS Description:	Chemical Storage Facilities

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-03-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Generator inspection
Eval Division:	Riverside County Department of Env Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-03-2017

TRACTOR SUPPLY COMPANY #2134 (Continued) **S119087868**

Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Handler inspection
Eval Division:	Riverside County Department of Env Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-24-2019
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Riverside County Department of Env Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-24-2019
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	SDS provided while on site.
Eval Division:	Riverside County Department of Env Health
Eval Program:	HMRRP
Eval Source:	CERS

Coordinates:

Site ID:	416850
Facility Name:	Tractor Supply Company Store #2134 - Calimesa
Env Int Type Code:	HMBP
Program ID:	10724371
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.998580
Longitude:	-117.059750

Affiliation:

Affiliation Type Desc:	Legal Owner
Entity Name:	TRACTOR SUPPLY COMPANY
Entity Title:	Not reported
Affiliation Address:	5401 Virginia Way
Affiliation City:	Brentwood
Affiliation State:	TN
Affiliation Country:	United States
Affiliation Zip:	37027
Affiliation Phone:	(615) 440-4000
Affiliation Type Desc:	Parent Corporation
Entity Name:	TRACTOR SUPPLY COMPANY
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

TRACTOR SUPPLY COMPANY #2134 (Continued) **S119087868**

Affiliation Type Desc:	Operator
Entity Name:	TRACTOR SUPPLY COMPANY
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(615) 440-4000

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	5401 Virginia Way
Affiliation City:	Brentwood
Affiliation State:	TN
Affiliation Country:	Not reported
Affiliation Zip:	37027
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	Joe Scholl
Entity Title:	Manager, Safey & Environmental Compliance
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	CUPA District
Entity Name:	Riverside Cnty Env Health
Entity Title:	Not reported
Affiliation Address:	4065 County Circle Drive, Room 104
Affiliation City:	Riverside
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92503
Affiliation Phone:	(951) 358-5055

Affiliation Type Desc:	Document Preparer
Entity Name:	Joe Scholl
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	Joe Scholl
Entity Title:	Not reported
Affiliation Address:	5401 Virginia Way
Affiliation City:	Brentwood
Affiliation State:	TN
Affiliation Country:	Not reported

TRACTOR SUPPLY COMPANY #2134 (Continued) **S119087868**

Affiliation Zip: 37027
Affiliation Phone: Not reported

HWTS:
Name: TRACTOR SUPPLY COMPANY #2134
Address: 1060 CALIMESA BLVD
Address 2: Not reported
City,State,Zip: CALIMESA, CA 92320
EPA ID: CAL000423074
Inactive Date: Not reported
Create Date: 12/21/2016
Last Act Date: 09/18/2020
Mailing Name: Not reported
Mailing Address: 5401 VIRGINIA WAY
Mailing Address 2: Not reported
Mailing City,State,Zip: BRENTWOOD, TN 370270000
Owner Name: TRACTOR SUPPLY COMPANY
Owner Address: 5401 VIRGINIA WAY
Owner Address 2: Not reported
Owner City,State,Zip: BRENTWOOD, TN 370270000
Contact Name: BRIAN SPEARS
Contact Address: 5401 VIRGINIA WAY
Contact Address 2: Not reported
City,State,Zip: BRENTWOOD, TN 370270000

NAICS:
EPA ID: CAL000423074
Create Date: 2016-12-21 11:53:59.570
NAICS Code: 453998
NAICS Description: All Other Miscellaneous Store Retailers (except Tobacco Stores)
Issued EPA ID Date: 2016-12-21 11:53:59.57000
Inactive Date: Not reported
Facility Name: TRACTOR SUPPLY COMPANY #2134
Facility Address: 1060 CALIMESA BLVD
Facility Address 2: Not reported
Facility City: CALIMESA
Facility County: Not reported
Facility State: CA
Facility Zip: 92320

C18 **AUTOZONE #4379** **CERS HAZ WASTE** **S123302193**
NE **1095 CALIMESA BLVD** **NPDES** **N/A**
1/8-1/4 **CALIMESA, CA 92320** **CERS**
0.154 mi.
811 ft. **Site 5 of 8 in cluster C**

Relative:
Higher

Actual:
2410 ft.

CERS HAZ WASTE:
Name: AUTOZONE #4379
Address: 1095 CALIMESA BLVD
City,State,Zip: CALIMESA, CA 92320
Site ID: 555668
CERS ID: 10823776
CERS Description: Hazardous Waste Generator

Name: AUTOZONE #4379
Address: 1095 CALIMESA BLVD

AUTOZONE #4379 (Continued) **S123302193**

City,State,Zip: CALIMESA, CA 92320
Site ID: 555668
CERS ID: 10823776
CERS Description: Hazardous Waste Onsite Treatment

NPDES:
Name: AUTOZONE STORE 4379
Address: 1095 CALIMESA BOULEVARD
City,State,Zip: CALIMESA, CA 92320
Facility Status: Terminated
NPDES Number: CAS000002
Region: 8
Agency Number: 0
Regulatory Measure ID: 505118
Place ID: Not reported
Order Number: 2009-0009-DWQ
WDID: 8 33C385856
Regulatory Measure Type: Enrollee
Program Type: Construction
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 01/28/2019
Termination Date Of Regulatory Measure: 10/03/2019
Expiration Date Of Regulatory Measure: Not reported
Discharge Address: 123 S Front St
Discharge Name: Autozone Inc
Discharge City: Memphis
Discharge State: Tennessee
Discharge Zip: 38101
Status: Not reported
Status Date: Not reported
Operator Name: Not reported
Operator Address: Not reported
Operator City: Not reported
Operator State: Not reported
Operator Zip: Not reported

Name: AUTOZONE STORE 4379
Address: 1095 CALIMESA BOULEVARD
City,State,Zip: CALIMESA, CA 92320
Facility Status: Not reported
NPDES Number: Not reported
Region: Not reported
Agency Number: Not reported
Regulatory Measure ID: Not reported
Place ID: Not reported
Order Number: Not reported
WDID: 8 33C385856
Regulatory Measure Type: Construction
Program Type: Not reported
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Discharge Address: Not reported
Discharge Name: Not reported
Discharge City: Not reported
Discharge State: Not reported

AUTOZONE #4379 (Continued) **S123302193**

Discharge Zip: Not reported
Status: Terminated
Status Date: 10/03/2019
Operator Name: Autozone Inc
Operator Address: 123 S Front St
Operator City: Memphis
Operator State: Tennessee
Operator Zip: 38101

CERS:
Name: AUTOZONE #4379
Address: 1095 CALIMESA BLVD
City,State,Zip: CALIMESA, CA 92320
Site ID: 555668
CERS ID: 10823776
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 555668
Site Name: AutoZone #4379
Violation Date: 11-22-2019
Citation: Un-Specified
Violation Description: Hazardous Waste Generator Program - Administration/Documentation - General Local Ordinance
Violation Notes: Not reported
Violation Division: Riverside County Department of Env Health
Violation Program: HW
Violation Source: CERS

Site ID: 555668
Site Name: AutoZone #4379
Violation Date: 11-22-2019
Citation: Un-Specified
Violation Description: Business Plan Program - Administration/Documentation - General Local Ordinance
Violation Notes: Not reported
Violation Division: Riverside County Department of Env Health
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-22-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: CE
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-22-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: HMRRP

AUTOZONE #4379 (Continued) **S123302193**

Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-22-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS

Coordinates:
Site ID: 555668
Facility Name: AutoZone #4379
Env Int Type Code: HMBP
Program ID: 10823776
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.997940
Longitude: -117.058770

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: Andrew Beaven
Entity Title: Not reported
Affiliation Address: Dept. 8190, 123 South Front Street
Affiliation City: Memphis
Affiliation State: TN
Affiliation Country: Not reported
Affiliation Zip: 38103
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: Dept. 8190, 123 South Front Street
Affiliation City: Memphis
Affiliation State: TN
Affiliation Country: Not reported
Affiliation Zip: 38103
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer
Entity Name: Deborah Williams
Entity Title: Environmental Coordinator
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: AutoZone Stores Inc
Entity Title: Not reported
Affiliation Address: 123 South Front Street

AUTOZONE #4379 (Continued) **S123302193**

Affiliation City:	Memphis
Affiliation State:	TN
Affiliation Country:	United States
Affiliation Zip:	38103
Affiliation Phone:	(901) 495-6500
Affiliation Type Desc:	Operator
Entity Name:	Autozone
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(901) 495-7129
Affiliation Type Desc:	Parent Corporation
Entity Name:	Auto Zone
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Document Preparer
Entity Name:	Deborah Williams
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Onsite Treatment Unit Owner Operator
Entity Name:	Deborah Williams
Entity Title:	Environmental Coordinator
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Property Owner
Entity Name:	AUTOZONE INC
Entity Title:	Not reported
Affiliation Address:	123 South Front Street
Affiliation City:	Memphis
Affiliation State:	TN
Affiliation Country:	United States
Affiliation Zip:	38103
Affiliation Phone:	(901) 495-6500
Affiliation Type Desc:	CUPA District

AUTOZONE #4379 (Continued) **S123302193**

Entity Name:	Riverside Cnty Env Health
Entity Title:	Not reported
Affiliation Address:	4065 County Circle Drive, Room 104
Affiliation City:	Riverside
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92503
Affiliation Phone:	(951) 358-5055

C19 **AUTOZONE #4379** **RCRA NonGen / NLR** **1025875501**
NE **1095 CALIMESA BLVD** **CAL000448635**
1/8-1/4 **CALIMESA, CA 92320**
0.154 mi.
811 ft. **Site 6 of 8 in cluster C**

Relative: **Higher**

Actual: **2410 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		2019-09-04 00:00:00.0
Handler Name:	AUTOZONE #4379	
Handler Address:		1095 CALIMESA BLVD
Handler City,State,Zip:		CALIMESA, CA 92320
EPA ID:		CAL000448635
Contact Name:		DEBORAH WILLIAMS
Contact Address:		123 S FRONT ST DEPT 8190
Contact City,State,Zip:		MEMPHIS, TN 38103
Contact Telephone:		901-495-7129
Contact Fax:		901-495-8399
Contact Email:		DEBORAH.J.WILLIAMS@AUTOZONE.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		123 S FRONT ST DEPT 8190
Mailing City,State,Zip:		MEMPHIS, TN 38103
Owner Name:		AUTOZONE INC
Owner Type:		Other
Operator Name:		DEBORAH WILLIAMS
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported

AUTOZONE #4379 (Continued) **1025875501**

Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2019-09-10 12:41:11.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	AUTOZONE INC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	123 S FRONT ST DEPT 8190
Owner/Operator City,State,Zip:	MEMPHIS, TN 38103
Owner/Operator Telephone:	901-495-6500
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator

AUTOZONE #4379 (Continued) **1025875501**

Owner/Operator Name:	DEBORAH WILLIAMS
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	123 S FRONT ST DEPT 8190
Owner/Operator City,State,Zip:	MEMPHIS, TN 38103
Owner/Operator Telephone:	901-495-7129
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2019-09-04 00:00:00.0
Handler Name: AUTOZONE #4379	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	452319
NAICS Description:	ALL OTHER GENERAL MERCHANDISE STORES

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

B20 **SABA PARTNERS INC DBA CALIMESA SHELL** **RCRA NonGen / NLR** **1024823895**
ESE **1213 CALIMESA BLVD** **CAL000345693**
1/8-1/4 **CALIMESA, CA 92320**
0.156 mi.
822 ft. **Site 9 of 12 in cluster B**

Relative: **Higher**
Actual: **2410 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	2009-08-12 00:00:00.0
Handler Name:	SABA PARTNERS INC DBA CALIMESA SHELL
Handler Address:	1213 CALIMESA BLVD
Handler City,State,Zip:	CALIMESA, CA 92320-1510
EPA ID:	CAL000345693
Contact Name:	BEN NIKKAR
Contact Address:	1213 CALIMESA BLVD
Contact City,State,Zip:	CALIMESA, CA 92320
Contact Telephone:	909-795-1437
Contact Fax:	909-795-7045
Contact Email:	BENNIKKAR@GMAIL.COM
Contact Title:	Not reported
EPA Region:	09

SABA PARTNERS INC DBA CALIMESA SHELL (Continued) **1024823895**

Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	1213 CALIMESA BLVD
Mailing City,State,Zip:	CALIMESA, CA 92320-1510
Owner Name:	SABA PARTNERS INC
Owner Type:	Other
Operator Name:	BEN NIKKAR
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No

SABA PARTNERS INC DBA CALIMESA SHELL (Continued) **1024823895**

Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-09-05 20:31:35.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	BEN NIKKAR
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1213 CALIMESA BLVD
Owner/Operator City,State,Zip:	CALIMESA, CA 92320
Owner/Operator Telephone:	909-795-1437
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	SABA PARTNERS INC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1213 CALIMESA BLVD
Owner/Operator City,State,Zip:	CALIMESA, CA 92320-1510
Owner/Operator Telephone:	909-795-1437
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2009-08-12 00:00:00.0
Handler Name:	SABA PARTNERS INC DBA CALIMESA SHELL
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	44719
NAICS Description:	OTHER GASOLINE STATIONS

SABA PARTNERS INC DBA CALIMESA SHELL (Continued) **1024823895**

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

B21 **SHELL SERVICE STATION** **SWEEPS UST** **1006805294**
ESE **1213 CALIMESA BLVD** **RCRA NonGen / NLR** **CAR000125583**
1/8-1/4 **CALIMESA, CA 92320** **FINDS**
0.156 mi. **ECHO**
822 ft. **Site 10 of 12 in cluster B** **HAZNET**
HWTS

Relative:
Higher

Actual:
2410 ft.

SWEEPS UST:

Name:	SHELL CALIMESA
Address:	1213 CALIMESA BLVD
City:	CALIMESA
Status:	Active
Comp Number:	1681
Number:	1
Board Of Equalization:	Not reported
Referral Date:	11-18-92
Action Date:	11-18-92
Created Date:	10-23-91
Owner Tank Id:	Not reported
SWRCB Tank Id:	33-000-001681-000001
Tank Status:	A
Capacity:	10000
Active Date:	11-18-92
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	4

Name:	SHELL CALIMESA
Address:	1213 CALIMESA BLVD
City:	CALIMESA
Status:	Active
Comp Number:	1681
Number:	1
Board Of Equalization:	Not reported
Referral Date:	11-18-92
Action Date:	11-18-92
Created Date:	10-23-91
Owner Tank Id:	Not reported
SWRCB Tank Id:	33-000-001681-000002
Tank Status:	A
Capacity:	10000
Active Date:	11-18-92
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Name:	SHELL CALIMESA
Address:	1213 CALIMESA BLVD

SHELL SERVICE STATION (Continued) **1006805294**

City: CALIMESA
Status: Active
Comp Number: 1681
Number: 1
Board Of Equalization: Not reported
Referral Date: 11-18-92
Action Date: 11-18-92
Created Date: 10-23-91
Owner Tank Id: Not reported
SWRCB Tank Id: 33-000-001681-000003
Tank Status: A
Capacity: 10000
Active Date: 11-18-92
Tank Use: M.V. FUEL
STG: P
Content: LEADED
Number Of Tanks: Not reported

Name: SHELL CALIMESA
Address: 1213 CALIMESA BLVD
City: CALIMESA
Status: Active
Comp Number: 1681
Number: 1
Board Of Equalization: Not reported
Referral Date: 11-18-92
Action Date: 11-18-92
Created Date: 10-23-91
Owner Tank Id: Not reported
SWRCB Tank Id: 33-000-001681-000004
Tank Status: A
Capacity: 550
Active Date: 11-18-92
Tank Use: OIL
STG: W
Content: WASTE OIL
Number Of Tanks: Not reported

RCRA NonGen / NLR:

Date Form Received by Agency:		2018-12-17 00:00:00.0
Handler Name:	SHELL SERVICE STATION	
Handler Address:		1213 CALIMESA BLVD
Handler City,State,Zip:		CALIMESA, CA 92320
EPA ID:		CAR000125583
Contact Name:		TESSA BEMIS
Contact Address:		285 DELAWARE AVE STE 500
Contact City,State,Zip:		BUFFALO, NY 14202
Contact Telephone:		716-362-8847
Contact Fax:		Not reported
Contact Email:		TESSA.BEMIS@GHD.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Private
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported

SHELL SERVICE STATION (Continued) **1006805294**

Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	SHELL OIL PRODUCTS US
Mailing City,State,Zip:	HOUSTON, TX 77067-2508
Owner Name:	EQUILON ENTERPRISES LLC DBA SHELL OIL PR
Owner Type:	Private
Operator Name:	SHELL OIL PRODUCTS US
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2019-01-10 18:32:16.0

SHELL SERVICE STATION (Continued) **1006805294**

Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	Not reported

Biennial: List of Years
Year: 2003

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:
Waste Code: D001
Waste Description: IGNITABLE WASTE

Waste Code: D018
Waste Description: BENZENE

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	EQUILON ENTERPRISES LLC DBA SHELL OIL PR
Legal Status:	Private
Date Became Current:	1998-08-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 2648
Owner/Operator City,State,Zip:	HOUSTON, TX 77252
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	EQUILON ENTERPRISES LLC DBA SHELL OIL PR
Legal Status:	Private
Date Became Current:	1998-08-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 2648
Owner/Operator City,State,Zip:	HOUSTON, TX 77252
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	SHELL OIL PRODUCTS US
Legal Status:	Private
Date Became Current:	1998-08-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

SHELL SERVICE STATION (Continued) **1006805294**

Owner/Operator Indicator:	Owner
Owner/Operator Name:	EQUILON ENTERPRISES LLC DBA SHELL OIL PR
Legal Status:	Private
Date Became Current:	1998-08-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 2648
Owner/Operator City,State,Zip:	HOUSTON, TX 77252
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	EQUILON ENTERPRISES LLC DBA
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	P O BOX 2648
Owner/Operator City,State,Zip:	HOUSTON, TX 77252-2648
Owner/Operator Telephone:	713-241-5036
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	SHELL OIL PRODUCTS US
Legal Status:	Private
Date Became Current:	1998-08-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	SHELL OIL PRODUCTS US
Legal Status:	Private
Date Became Current:	1998-08-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2018-12-17 00:00:00.0
Handler Name: SHELL SERVICE STATION	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No

SHELL SERVICE STATION (Continued) **1006805294**

Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 2004-02-26 00:00:00.0
Handler Name: SHELL SERVICE STATION
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2002-08-14 00:00:00.0
Handler Name: SHELL SERVICE STATION
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2004-02-26 00:00:00.0
Handler Name: SHELL SERVICE STATION
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 44711
NAICS Description: GASOLINE STATIONS WITH CONVENIENCE STORES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

SHELL SERVICE STATION (Continued) **1006805294**

FINDS:
Registry ID: 110013308660

Click Here:

Environmental Interest/Information System:
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
HAZARDOUS WASTE BIENNIAL REPORTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1006805294
Registry ID:	110013308660
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110013308660
Name:	SHELL SERVICE STATION
Address:	1213 CALIMESA BLVD
City,State,Zip:	CALIMESA, CA 92320

HAZNET:

Name:	SHELL SERVICE STATION
Address:	1213 CALIMESA BLVD
Address 2:	Not reported
City,State,Zip:	CALIMESA, CA 92320
Contact:	J. Traylor/ENV REPORTING ANALYST
Telephone:	7132416992
Mailing Name:	Not reported
Mailing Address:	PO BOX 3127
Year:	2004
Gepaid:	CAR000125583
TSD EPA ID:	CAD982484933
CA Waste Code:	512 - Other empty containers 30 gallons or more
Disposal Method:	D99 - Disposal, Other
Tons:	0.5
Year:	2003
Gepaid:	CAR000125583
TSD EPA ID:	CAT080013352
CA Waste Code:	134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method:	R01 - Recycler
Tons:	2.94
Year:	2003
Gepaid:	CAR000125583
TSD EPA ID:	CAD028409019

SHELL SERVICE STATION (Continued) **1006805294**

CA Waste Code: 352 - Other organic solids
Disposal Method: H01 - Transfer Station
Tons: 0.035

Year: 2003
Gepaid: CAR000125583
TSD EPA ID: CAD982484933
CA Waste Code: 512 - Other empty containers 30 gallons or more
Disposal Method: D99 - Disposal, Other
Tons: 10.25

Year: 2002
Gepaid: CAR000125583
TSD EPA ID: CAD028409019
CA Waste Code: 134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method: T01 - Treatment, Tank
Tons: 0.924

Year: 2002
Gepaid: CAR000125583
TSD EPA ID: CAD028409019
CA Waste Code: 241 - Tank bottom waste
Disposal Method: T01 - Treatment, Tank
Tons: 0.6255

Year: 2002
Gepaid: CAR000125583
TSD EPA ID: CAD028409019
CA Waste Code: 352 - Other organic solids
Disposal Method: H01 - Transfer Station
Tons: 0.125

Additional Info:
Year: 2002
Gen EPA ID: CAR000125583

Shipment Date: 20021125
Creation Date: 3/16/2007 18:30:20
Receipt Date: 20021127
Manifest ID: 21998189
Trans EPA ID: CAR000031211
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD028409019
Trans Name: Not reported
TSDF Alt EPA ID: CAD028409019
TSDF Alt Name: Not reported
Waste Code Description: 352 - Other organic solids
RCRA Code: D018
Meth Code: H01 - Transfer Station
Quantity Tons: 0.125
Waste Quantity: 250
Quantity Unit: P
Additional Code 1: Not reported

SHELL SERVICE STATION (Continued) **1006805294**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020905
Creation Date:	1/27/2003 18:32:25
Receipt Date:	20020909
Manifest ID:	21851501
Trans EPA ID:	CAR000118992
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	241 - Tank bottom waste 251 Still bottoms with halogenated organics
RCRA Code:	D001
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.6255
Waste Quantity:	150
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020301
Creation Date:	5/19/2003 18:32:02
Receipt Date:	20030306
Manifest ID:	22252665
Trans EPA ID:	CAR000031211
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D001
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.924
Waste Quantity:	220
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2004
Gen EPA ID:	CAR000125583

SHELL SERVICE STATION (Continued) **1006805294**

Shipment Date:	20040224
Creation Date:	8/20/2004 9:49:45
Receipt Date:	20040224
Manifest ID:	23376528
Trans EPA ID:	CAL922125668
Trans Name:	ADAMS SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982484933
Trans Name:	ECOLOGY CONTROL INDUSTRIES
TSDF Alt EPA ID:	CAD982484933
TSDF Alt Name:	Not reported
Waste Code Description:	512 - Other empty containers 30 gallons or more
RCRA Code:	Not reported
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.5
Waste Quantity:	1000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2003
Gen EPA ID:	CAR000125583

Shipment Date:	20031028
Creation Date:	8/3/2004 15:03:33
Receipt Date:	20031028
Manifest ID:	22850407
Trans EPA ID:	CAL922125668
Trans Name:	ADAMS SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982484933
Trans Name:	ECOLOGY CONTROL INDUSTRIES
TSDF Alt EPA ID:	CAD982484933
TSDF Alt Name:	Not reported
Waste Code Description:	512 - Other empty containers 30 gallons or more
RCRA Code:	Not reported
Meth Code:	D99 - Disposal, Other
Quantity Tons:	1.25
Waste Quantity:	2500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20030926
Creation Date:	8/3/2004 15:03:33
Receipt Date:	20031002
Manifest ID:	22850408
Trans EPA ID:	CAL922125668

SHELL SERVICE STATION (Continued) **1006805294**

Trans Name:	ADAMS SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO/KERDOON
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	2.94
Waste Quantity:	700
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20030926
Creation Date:	7/13/2004 10:48:19
Receipt Date:	20030926
Manifest ID:	22850409
Trans EPA ID:	CAL922125668
Trans Name:	ADAMS SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982484933
Trans Name:	ECOLOGY CONTROL INDUSTRIES
TSDF Alt EPA ID:	CAD982484933
TSDF Alt Name:	Not reported
Waste Code Description:	512 - Other empty containers 30 gallons or more
RCRA Code:	Not reported
Meth Code:	D99 - Disposal, Other
Quantity Tons:	3
Waste Quantity:	6000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20030926
Creation Date:	7/13/2004 10:48:19
Receipt Date:	20030926
Manifest ID:	22850410
Trans EPA ID:	CAL922125668
Trans Name:	ADAMS SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982484933
Trans Name:	ECOLOGY CONTROL INDUSTRIES
TSDF Alt EPA ID:	CAD982484933
TSDF Alt Name:	Not reported
Waste Code Description:	512 - Other empty containers 30 gallons or more
RCRA Code:	Not reported

SHELL SERVICE STATION (Continued) **1006805294**

Meth Code:	D99 - Disposal, Other
Quantity Tons:	3
Waste Quantity:	6000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20030926
Creation Date:	7/13/2004 10:48:19
Receipt Date:	20030926
Manifest ID:	22850411
Trans EPA ID:	CAL922125668
Trans Name:	ADAMS SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982484933
Trans Name:	ECOLOGY CONTROL INDUSTRIES
TSDF Alt EPA ID:	CAD982484933
TSDF Alt Name:	Not reported
Waste Code Description:	512 - Other empty containers 30 gallons or more
RCRA Code:	Not reported
Meth Code:	D99 - Disposal, Other
Quantity Tons:	3
Waste Quantity:	6000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20030322
Creation Date:	6/21/2003 18:30:56
Receipt Date:	20030327
Manifest ID:	22252041
Trans EPA ID:	CAR000031211
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD028409019
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D018
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.035
Waste Quantity:	70
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

SHELL SERVICE STATION (Continued) **1006805294**

HWTS:

Name:	SHELL SERVICE STATION
Address:	1213 CALIMESA BLVD
Address 2:	S A P 135118
City,State,Zip:	CALIMESA, CA 92320
EPA ID:	CAR000125583
Inactive Date:	11/03/2010
Create Date:	03/04/2003
Last Act Date:	01/10/2019
Mailing Name:	Not reported
Mailing Address:	285 DELAWARE AVE STE 500
Mailing Address 2:	Not reported
Mailing City,State,Zip:	BUFFALO, NY 14202
Owner Name:	SHELL OIL PRODUCTS US
Owner Address:	PO BOX 3127
Owner Address 2:	Not reported
Owner City,State,Zip:	HOUSTON, TX 772530000
Contact Name:	TESSA BEMIS
Contact Address:	285 DELAWARE AVE STE 500
Contact Address 2:	Not reported
City,State,Zip:	BUFFALO, NY 14202

NAICS:

EPA ID:	CAR000125583
Create Date:	2003-10-23 13:13:52.000
NAICS Code:	44711
NAICS Description:	Gasoline Stations with Convenience Stores
Issued EPA ID Date:	2003-03-04 14:25:35.18700
Inactive Date:	2010-11-03 00:00:00
Facility Name:	SHELL SERVICE STATION
Facility Address:	1213 CALIMESA BLVD
Facility Address 2:	S A P 135118
Facility City:	CALIMESA
Facility County:	Not reported
Facility State:	CA
Facility Zip:	92320

B22 **CALIMESA SHELL** **UST** **U004186663**
ESE **1213 CALIMESA BLVD** **N/A**
1/8-1/4 **CALIMESA, CA 92320**
0.156 mi.
822 ft. **Site 11 of 12 in cluster B**

Relative:
Higher

Actual:
2410 ft.

UST:

Name:	CALIMESA SHELL STATION
Address:	1213 CALIMESA BLVD
City,State,Zip:	CALIMESA, CA 92320
Facility ID:	FA0032317
Permitting Agency:	Riverside County Department of Environmental Health
Latitude:	33.99359
Longitude:	-117.05684

Name:	CALIMESA SHELL
Address:	1213 CALIMESA BLVD
City,State,Zip:	CALIMESA, CA 92320
Facility ID:	144
Permitting Agency:	RIVERSIDE COUNTY

CALIMESA SHELL (Continued) **U004186663**

Latitude: 33.9949616
Longitude: -117.0553909

RIVERSIDE CO. UST:
Name: CALIMESA SHELL STATION
Address: 1213 CALIMESA BLVD
City,State,Zip: CALIMESA, CA 92320
Region: RIVERSIDE
Total Tanks: 3

B23 **SHELL #1213** **LUST** **S104791922**
ESE **1213 CALIMESA BLVD** **CERS HAZ WASTE** **N/A**
1/8-1/4 **CALIMESA, CA 92320** **CERS TANKS**
0.156 mi. **Cortese**
822 ft. **Site 12 of 12 in cluster B** **HIST CORTESE**
CERS

Relative:
Higher

Actual:
2410 ft.

LUST REG 8:

Name:	SHELL #1213
Address:	1213 CALIMESA BLVD
City:	CALIMESA
Region:	8
County:	Riverside
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083302217T
Local Case Num:	93059
Case Type:	Soil only
Substance:	Premium Gasoline
Qty Leaked:	Not reported
Abate Method:	No Action Required - incident is minor, requiring no remedial action
Cross Street:	Not reported
Enf Type:	CLOS
Funding:	Not reported
How Discovered:	OM
How Stopped:	Not reported
Leak Cause:	UNK
Leak Source:	Tank
Global ID:	T0606500312
How Stopped Date:	1/27/1993
Enter Date:	3/17/1993
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	4/1/1994
Discover Date:	1/27/1993
Enforcement Date:	Not reported
Close Date:	10/24/1995
Date Prelim Assessment Workplan Submitted:	7/15/1993
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	3/17/1993
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported

SHELL #1213 (Continued) **S104791922**

Oversite Program:	LUST
Latitude:	33.9955652
Longitude:	-117.058211
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	CAB
Staff Initials:	UNK
Lead Agency:	Local Agency
Local Agency:	33000L
Hydr Basin #:	UPPER SANTA ANA VALL
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

RIVERSIDE CO. LUST:

Name:	SHELL
Address:	1213 CALIMESA BLVD
City,State,Zip:	CALIMESA, CA
Region:	RIVERSIDE
Facility ID:	93059
Employee:	Brown
Site Closed:	Yes
Case Type:	Soil only
Facility Status:	closed/action completed
Casetype Decode:	Soil only is impacted
Fstatus Decode:	Closed/Action completed

LUST:

Name:	SHELL #1213
Address:	1213 CALIMESA BLVD
City,State,Zip:	CALIMESA, CA 92320
Lead Agency:	RIVERSIDE COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0606500312
Global Id:	T0606500312
Latitude:	33.9935102745255
Longitude:	-117.0569315863
Status:	Completed - Case Closed
Status Date:	10/24/1995
Case Worker:	RIV
RB Case Number:	083302217T
Local Agency:	RIVERSIDE COUNTY LOP
File Location:	Local Agency Warehouse
Local Case Number:	93059
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id: T0606500312

SHELL #1213 (Continued) **S104791922**

Contact Type: Regional Board Caseworker
Contact Name: CARL BERNHARDT
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: carl.bernhardt@waterboards.ca.gov
Phone Number: 9517824495

Global Id: T0606500312
Contact Type: Local Agency Caseworker
Contact Name: Riverside County LOP
Organization Name: RIVERSIDE COUNTY LOP
Address: 3880 LEMON ST SUITE 200
City: RIVERSIDE
Email: Not reported
Phone Number: 9519558980

LUST:
Global Id: T0606500312
Action Type: ENFORCEMENT
Date: 10/24/1995
Action: Closure/No Further Action Letter - #Riv Co Closure

Global Id: T0606500312
Action Type: Other
Date: 01/28/1993
Action: Leak Reported

Global Id: T0606500312
Action Type: ENFORCEMENT
Date: 10/23/1995
Action: File review - #RCDEH Upload Site File 10/29/2015

Global Id: T0606500312
Action Type: Other
Date: 01/27/1993
Action: Leak Discovery

Global Id: T0606500312
Action Type: ENFORCEMENT
Date: 10/24/1995
Action: Closure/No Further Action Letter

Global Id: T0606500312
Action Type: Other
Date: 01/27/1993
Action: Leak Stopped

LUST:
Global Id: T0606500312
Status: Open - Case Begin Date
Status Date: 01/27/1993

Global Id: T0606500312
Status: Open - Site Assessment
Status Date: 07/15/1993

SHELL #1213 (Continued) **S104791922**

Global Id: T0606500312
Status: Open - Site Assessment
Status Date: 04/01/1994

Global Id: T0606500312
Status: Completed - Case Closed
Status Date: 10/24/1995

CERS HAZ WASTE:
Name: CALIMESA SHELL STATION
Address: 1213 CALIMESA BLVD
City,State,Zip: CALIMESA, CA 92320
Site ID: 15729
CERS ID: 10327081
CERS Description: Hazardous Waste Generator

CERS TANKS:
Name: CALIMESA SHELL STATION
Address: 1213 CALIMESA BLVD
City,State,Zip: CALIMESA, CA 92320
Site ID: 15729
CERS ID: 10327081
CERS Description: Underground Storage Tank

CORTESE:
Name: SHELL #1213
Address: 1213 CALIMESA BLVD
City,State,Zip: CALIMESA, CA 92320
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0606500312
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

HIST CORTESE:
edr_fname: SHELL SERVICE STATION
edr_fadd1: 1213 CALIMESA
City,State,Zip: CALIMESA, CA

SHELL #1213 (Continued) **S104791922**

Region: CORTESE
Facility County Code: 33
Reg By: LTNKA
Reg Id: 083302217T

CERS:
Name: CALIMESA SHELL STATION
Address: 1213 CALIMESA BLVD
City,State,Zip: CALIMESA, CA 92320
Site ID: 15729
CERS ID: 10327081
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 15729
Site Name: Calimesa Shell Station
Violation Date: 04-28-2017
Citation: HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 09/13/2017.
Violation Division: Riverside County Department of Env Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 15729
Site Name: Calimesa Shell Station
Violation Date: 04-28-2017
Citation: 23 CCR 16 2641(h) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(h)
Violation Description: Failure to have an approved UST Monitoring Plan.
Violation Notes: Returned to compliance on 08/30/2017.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

Site ID: 15729
Site Name: Calimesa Shell Station
Violation Date: 08-30-2017
Citation: 23 CCR 16 2632(d)(1)(C), 2641(h), 2711(a)(8) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2632(d)(1)(C), 2641(h), 2711(a)(8)
Violation Description: Failure to submit or update a plot plan.
Violation Notes: Returned to compliance on 09/13/2017.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

Site ID: 15729
Site Name: Calimesa Shell Station
Violation Date: 03-25-2019
Citation: 23 CCR 16 2636(f)(1) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(1)
Violation Description: Failure of the leak detection equipment to have an audible and visual alarm as required.

SHELL #1213 (Continued) **S104791922**

Violation Notes:	Returned to compliance on 03/25/2019. OBSERVATION: Observed sensor L3 (VR 208) in the diesel fill sump fail to activate an audible and visual alarm when tested. CORRECTIVE ACTION: Owner/operator shall repair/replace inoperable L3 and certify that sensor will activate an audible visual alarm when a leak is detected. Technician repaired wiring on sensor, retested and passed. Violation corrected on site.
Violation Division:	Riverside County Department of Env Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	15729
Site Name:	Calimesa Shell Station
Violation Date:	04-06-2016
Citation:	HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description:	Failure to annually review and electronically certify that the business plan is complete, accurate, and up-to-date.
Violation Notes:	Returned to compliance on 05/13/2016.
Violation Division:	Riverside County Department of Env Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	15729
Site Name:	Calimesa Shell Station
Violation Date:	03-28-2017
Citation:	HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f)
Violation Description:	Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name. A substantial change in the handler's operations that requires modification to any portion of the business plan.
Violation Notes:	Returned to compliance on 04/28/2017.
Violation Division:	Riverside County Department of Env Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	15729
Site Name:	Calimesa Shell Station
Violation Date:	04-06-2016
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 04/06/2016.
Violation Division:	Riverside County Department of Env Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	15729
Site Name:	Calimesa Shell Station
Violation Date:	08-30-2017
Citation:	23 CCR 16 2712 - California Code of Regulations, Title 23, Chapter 16,

SHELL #1213 (Continued) **S104791922**

	Section(s) 2712
Violation Description:	Failure to comply with any of the applicable requirements of the permit issued for the operation of the UST system.
Violation Notes:	Returned to compliance on 09/13/2017.
Violation Division:	Riverside County Department of Env Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	15729
Site Name:	Calimesa Shell Station
Violation Date:	04-06-2016
Citation:	HSC 6.7 25286(a) - California Health and Safety Code, Chapter 6.7, Section(s) 25286(a)
Violation Description:	Failure to submit an complete and accurate application for a permit to operate an underground storage tank, or for renewal of the permit.
Violation Notes:	Returned to compliance on 05/12/2016.
Violation Division:	Riverside County Department of Env Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	15729
Site Name:	Calimesa Shell Station
Violation Date:	04-06-2016
Citation:	HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description:	Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes:	Returned to compliance on 04/06/2016.
Violation Division:	Riverside County Department of Env Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	15729
Site Name:	Calimesa Shell Station
Violation Date:	03-28-2017
Citation:	23 CCR 16 2632(d)(1)(C), 2641(h), 2711(a)(8) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2632(d)(1)(C), 2641(h), 2711(a)(8)
Violation Description:	Failure to submit or update a plot plan.
Violation Notes:	Returned to compliance on 09/13/2017.
Violation Division:	Riverside County Department of Env Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	15729
Site Name:	Calimesa Shell Station
Violation Date:	03-28-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 05/17/2017.
Violation Division:	Riverside County Department of Env Health
Violation Program:	HMRRP
Violation Source:	CERS

SHELL #1213 (Continued) **S104791922**

Site ID:	15729
Site Name:	Calimesa Shell Station
Violation Date:	04-06-2016
Citation:	HSC 6.7 25291 - California Health and Safety Code, Chapter 6.7, Section(s) 25291
Violation Description:	Failure to maintain under-dispenser containment, sumps, and/or other secondary containment in good condition and/or free of debris/liquid.
Violation Notes:	Returned to compliance on 04/06/2016.
Violation Division:	Riverside County Department of Env Health
Violation Program:	UST
Violation Source:	CERS

Site ID:	15729
Site Name:	Calimesa Shell Station
Violation Date:	04-28-2017
Citation:	23 CCR 6.7 25284, 25286 - California Code of Regulations, Title 23, Chapter 6.7, Section(s) 25284, 25286
Violation Description:	Failure to submit a complete and accurate application for a permit to operate a UST, or for renewal of the permit.
Violation Notes:	Returned to compliance on 08/30/2017.
Violation Division:	Riverside County Department of Env Health
Violation Program:	UST
Violation Source:	CERS

Site ID:	15729
Site Name:	Calimesa Shell Station
Violation Date:	03-28-2017
Citation:	19 CCR 6.95 25508(a)(1) - California Code of Regulations, Title 19, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes:	Returned to compliance on 05/17/2017.
Violation Division:	Riverside County Department of Env Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	15729
Site Name:	Calimesa Shell Station
Violation Date:	03-31-2020
Citation:	HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	OBSERVATION: The chemical inventory description page submitted for Propane contained incorrect information. CORRECTIVE ACTION: Owner/operator shall update the chemical inventory page for *Propane* and submit to the statewide information management system (e.g. CERS) at http://cers.calepa.ca.gov. Please refer to a current Safety Data Sheet (SDS) for guidance. Adjust page to reflect if material is a liquefied gas or a compressed gas, and adjust the following fields accordingly: Physical State Average Daily Amount Maximum Daily Amount Largest Container Units
Violation Division:	Riverside County Department of Env Health
Violation Program:	HMRRP
Violation Source:	CERS

SHELL #1213 (Continued) **S104791922**

Site ID: 15729
Site Name: Calimesa Shell Station
Violation Date: 11-08-2019
Citation: 23 CCR 16 2712(b)(1)(G) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)(1)(G)
Violation Description: Failure to comply with one or more of the following overfill prevention equipment requirements: Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling. Install/retrofit overfill prevention equipment that does not use flow restrictors on vent piping to meet overfill prevention equipment requirements when the overfill prevention equipment is installed, repaired, or replaced on and after October 1,- 2018. For USTs installed before October 1, 2018, perform an inspection by October 13, 2018 and every 36 months thereafter. For USTs installed on and after October- 1,- 2018, perform an inspection at installation and every 36 months thereafter. Inspected within 30 days after a repair to the overfill prevention equipment. Inspected using an applicable manufacturer guidelines, industry codes, engineering standards, or a method approved by a professional engineer. Inspected by a certified UST service technician. Maintain records of overfill prevention equipment inspection for 36 months.
Violation Notes: Returned to compliance on 12/09/2019.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

Site ID: 15729
Site Name: Calimesa Shell Station
Violation Date: 03-25-2019
Citation: 23 CCR 16 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)
Violation Description: Failure to maintain records of repairs and upgrades on site, or off site if approved by the UPA, for the life of the UST.
Violation Notes: Returned to compliance on 05/23/2019. OBSERVATION: Observed that facility has completed a "Cold start" of the monitoring panel and was unable to locate work order documents. Facility upgraded the dispensers on site and had to conduct a "Cold start" of the monitoring panel. CORRECTIVE ACTION: Owner/operator shall provide all maintenance, monitoring, repair and/or upgrade records. Maintain copies on site and available for review. SUbmit missing documentation to the CUPA.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

Site ID: 15729
Site Name: Calimesa Shell Station
Violation Date: 05-17-2017
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter

SHELL #1213 (Continued) **S104791922**

16, Section(s) 2712(i)
Violation Description: Failure to have a UST Response Plan available on site.
Violation Notes: Returned to compliance on 09/13/2017.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

Site ID: 15729
Site Name: Calimesa Shell Station
Violation Date: 03-25-2019
Citation: HSC 6.7 25284, 25286 - California Health and Safety Code, Chapter 6.7, Section(s) 25284, 25286
Violation Description: Failure to submit a complete and accurate application for a permit to operate a UST, or for renewal of the permit.
Violation Notes: Returned to compliance on 05/23/2019. OBSERVATION: Observed UST tank information pages submitted in CERS to be inaccurate and/or missing information. The tank information page indicates a "No" for striker plates in all three tanks and a "yes" for ball floats as overfill prevention. Tanks were installed in 2003 therefore required to have striker plates and system does not required ball floats as overfill prevention as all piping is double walled on site. CORRECTIVE ACTION: Owner/operator shall make the corrections noted above to the UST tank information pages and re-submit updated forms in CERS.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

Site ID: 15729
Site Name: Calimesa Shell Station
Violation Date: 04-28-2017
Citation: HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 05/17/2017.
Violation Division: Riverside County Department of Env Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 15729
Site Name: Calimesa Shell Station
Violation Date: 03-28-2017
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to have a UST Response Plan available on site.
Violation Notes: Returned to compliance on 09/13/2017.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

Site ID: 15729
Site Name: Calimesa Shell Station
Violation Date: 03-28-2017
Citation: 23 CCR 16 2637(e) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2637(e)
Violation Description: Failure to submit a copy of the secondary containment test results to the CUPA within 30 days after the test.

SHELL #1213 (Continued) **S104791922**

Violation Notes:	Returned to compliance on 03/28/2017.
Violation Division:	Riverside County Department of Env Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	15729
Site Name:	Calimesa Shell Station
Violation Date:	08-30-2017
Citation:	HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description:	Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes:	Returned to compliance on 09/13/2017.
Violation Division:	Riverside County Department of Env Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	15729
Site Name:	Calimesa Shell Station
Violation Date:	04-06-2016
Citation:	HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description:	Business Plan Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 04/06/2016.
Violation Division:	Riverside County Department of Env Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	15729
Site Name:	Calimesa Shell Station
Violation Date:	03-31-2020
Citation:	HSC 6.7 25284, 25286 - California Health and Safety Code, Chapter 6.7, Section(s) 25284, 25286
Violation Description:	Failure to submit a complete and accurate application for a permit to operate a UST, or for renewal of the permit.
Violation Notes:	OBSERVATION: Observed UST tank information pages submitted in CERS to be inaccurate. Currently, *Tank Manufacturer* indicates Modern Welding and should indicate *Containment Solutions*. [Sumps have Total Containment placarding] CORRECTIVE ACTION: Owner/operator shall make the corrections noted above to the UST tank information pages and re-submit updated forms in CERS.
Violation Division:	Riverside County Department of Env Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	15729
Site Name:	Calimesa Shell Station
Violation Date:	03-28-2017
Citation:	23 CCR 6.7 25284, 25286 - California Code of Regulations, Title 23, Chapter 6.7, Section(s) 25284, 25286
Violation Description:	Failure to submit a complete and accurate application for a permit to operate a UST, or for renewal of the permit.
Violation Notes:	Returned to compliance on 08/30/2017.
Violation Division:	Riverside County Department of Env Health
Violation Program:	UST
Violation Source:	CERS

SHELL #1213 (Continued) **S104791922**

Site ID: 15729
Site Name: Calimesa Shell Station
Violation Date: 03-28-2017
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Returned to compliance on 05/17/2017.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

Site ID: 15729
Site Name: Calimesa Shell Station
Violation Date: 03-26-2015
Citation: 23 CCR 16 2666(c) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2666(c)
Violation Description: Failure of line leak detector to detect a leak and/or failure of audible and visual alarm.
Violation Notes: Returned to compliance on 04/30/2015.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

Site ID: 15729
Site Name: Calimesa Shell Station
Violation Date: 03-26-2015
Citation: 23 CCR 16 2666(c) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2666(c)
Violation Description: Failure of pump shut down when a leak is detected or when line leak detector is disconnected.
Violation Notes: Returned to compliance on 04/30/2015.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

Site ID: 15729
Site Name: Calimesa Shell Station
Violation Date: 04-28-2017
Citation: HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f)
Violation Description: Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name. A substantial change in the handler's operations that requires modification to any portion of the business plan.
Violation Notes: Returned to compliance on 04/28/2017.
Violation Division: Riverside County Department of Env Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 15729
Site Name: Calimesa Shell Station
Violation Date: 05-17-2017
Citation: 23 CCR 16 2641(h) - California Code of Regulations, Title 23, Chapter

SHELL #1213 (Continued) **S104791922**

	16, Section(s) 2641(h)
Violation Description:	Failure to have an approved UST Monitoring Plan.
Violation Notes:	Returned to compliance on 08/30/2017.
Violation Division:	Riverside County Department of Env Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	15729
Site Name:	Calimesa Shell Station
Violation Date:	04-28-2017
Citation:	23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description:	Failure to have a UST Monitoring Plan available on site.
Violation Notes:	Returned to compliance on 08/30/2017.
Violation Division:	Riverside County Department of Env Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	15729
Site Name:	Calimesa Shell Station
Violation Date:	05-17-2017
Citation:	23 CCR 16 2632(d)(1)(C), 2641(h), 2711(a)(8) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2632(d)(1)(C), 2641(h), 2711(a)(8)
Violation Description:	Failure to submit or update a plot plan.
Violation Notes:	Returned to compliance on 09/13/2017.
Violation Division:	Riverside County Department of Env Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	15729
Site Name:	Calimesa Shell Station
Violation Date:	05-23-2019
Citation:	23 CCR 16 2715(a)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(a)(2)
Violation Description:	Failure to submit the G Underground Storage Tank Statement of Understanding and Compliance Form.G
Violation Notes:	Returned to compliance on 06/11/2019. OBSERVATION: Observed that an "Underground Storage Tank Statement of Understanding and Compliance Form" submitted electronically in CERS was for a different site. CORRECTIVE ACTION: Owner/operator shall electronically submit into CERS a complete, accurate and signed "Underground Storage Tank Statement of Understanding and Compliance Form".
Violation Division:	Riverside County Department of Env Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	15729
Site Name:	Calimesa Shell Station
Violation Date:	03-28-2017
Citation:	HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 09/13/2017.
Violation Division:	Riverside County Department of Env Health

SHELL #1213 (Continued) **S104791922**

Violation Program: HMRRP
Violation Source: CERS

Site ID: 15729
Site Name: Calimesa Shell Station
Violation Date: 03-25-2019
Citation: 23 CCR 16 2641(h) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(h)
Violation Description: Failure to have an approved UST Monitoring Plan.
Violation Notes: Returned to compliance on 05/23/2019. OBSERVATION: Observed UST Monitoring Plan(s) for all three tanks to be inaccurate and/or missing information. The UDC section of the monitoring plan indicates a "yes" for stopping flow at dispenser however site has VR 208 sensors. UST Monitoring Plan is not approved as submitted. CORRECTIVE ACTION: Owner/operator shall make the following corrections to the UST Monitoring Plan(s) and submit in CERS. Please update the UDC section of the monitoring plan to indicate a "no" for stopping flow at dispenser and resubmit.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

Site ID: 15729
Site Name: Calimesa Shell Station
Violation Date: 03-27-2014
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Training - General
Violation Notes: Returned to compliance on 04/06/2016.
Violation Division: Riverside County Department of Env Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 15729
Site Name: Calimesa Shell Station
Violation Date: 03-25-2019
Citation: 23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)
Violation Description: Failure of the functional line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements: Monitored at least hourly with the capability of detecting a release of 3.0 gallons per hour leak at 10 pounds per square inch and restrict or shut off the flow of product through the piping when a leak is detected.
Violation Notes: Returned to compliance on 05/23/2019. OBSERVATION: Observed MLLD for 91 product fail to detect a 3.0 gallon per hour leak and restrict or shut off flow of product when tested. CORRECTIVE ACTION: Owner/operator shall repair/replace failed leak detector and certify that leak detector is capable of detecting a 3.0 gallon per hour leak and slowing/stopping the flow of product. 48 hour notification required to be submitted to this Department prior to re-testing failed leak detector. Technicians attempting to repair 91 MLLD.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

Site ID: 15729

SHELL #1213 (Continued) **S104791922**

Site Name:	Calimesa Shell Station
Violation Date:	03-28-2017
Citation:	23 CCR 16 2712 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712
Violation Description:	Failure to comply with any of the applicable requirements of the permit issued for the operation of the UST system.
Violation Notes:	Returned to compliance on 09/13/2017.
Violation Division:	Riverside County Department of Env Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	15729
Site Name:	Calimesa Shell Station
Violation Date:	08-30-2017
Citation:	23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description:	Failure to have a UST Response Plan available on site.
Violation Notes:	Returned to compliance on 09/13/2017.
Violation Division:	Riverside County Department of Env Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	15729
Site Name:	Calimesa Shell Station
Violation Date:	04-28-2017
Citation:	23 CCR 16 2712 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712
Violation Description:	Failure to comply with any of the applicable requirements of the permit issued for the operation of the UST system.
Violation Notes:	Returned to compliance on 09/13/2017.
Violation Division:	Riverside County Department of Env Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	15729
Site Name:	Calimesa Shell Station
Violation Date:	08-30-2017
Citation:	HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 09/13/2017.
Violation Division:	Riverside County Department of Env Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	15729
Site Name:	Calimesa Shell Station
Violation Date:	03-28-2017
Citation:	HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 05/17/2017.
Violation Division:	Riverside County Department of Env Health
Violation Program:	HMRRP

SHELL #1213 (Continued) **S104791922**

Violation Source: CERS

Site ID: 15729
Site Name: Calimesa Shell Station
Violation Date: 05-17-2017
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to have a UST Monitoring Plan available on site.
Violation Notes: Returned to compliance on 08/30/2017.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

Site ID: 15729
Site Name: Calimesa Shell Station
Violation Date: 04-28-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 05/17/2017.
Violation Division: Riverside County Department of Env Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 15729
Site Name: Calimesa Shell Station
Violation Date: 04-28-2017
Citation: 23 CCR 16 2632(d)(1)(C), 2641(h), 2711(a)(8) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2632(d)(1)(C), 2641(h), 2711(a)(8)
Violation Description: Failure to submit or update a plot plan.
Violation Notes: Returned to compliance on 09/13/2017.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

Site ID: 15729
Site Name: Calimesa Shell Station
Violation Date: 04-28-2017
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Returned to compliance on 05/17/2017.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

Site ID: 15729
Site Name: Calimesa Shell Station
Violation Date: 03-28-2017
Citation: 23 CCR 16 2641(h) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(h)
Violation Description: Failure to have an approved UST Response Plan.
Violation Notes: Returned to compliance on 05/17/2017.

SHELL #1213 (Continued) **S104791922**

Violation Division:	Riverside County Department of Env Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	15729
Site Name:	Calimesa Shell Station
Violation Date:	03-27-2014
Citation:	HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections
Violation Description:	UST Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 04/30/2015.
Violation Division:	Riverside County Department of Env Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	15729
Site Name:	Calimesa Shell Station
Violation Date:	03-25-2019
Citation:	23 CCR 16 2715(a)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(a)(2)
Violation Description:	Failure to submit the G Underground Storage Tank Statement of Understanding and Compliance Form.G
Violation Notes:	Returned to compliance on 06/11/2019. OBSERVATION: Observed that the "Underground Storage Tank Statement of Understanding and Compliance Form" submitted electronically in CERS is for a different UST site. CORRECTIVE ACTION: Owner/operator shall electronically submit into CERS a complete, accurate and signed "Underground Storage Tank Statement of Understanding and Compliance Form".
Violation Division:	Riverside County Department of Env Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	15729
Site Name:	Calimesa Shell Station
Violation Date:	03-26-2015
Citation:	HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description:	Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes:	Returned to compliance on 03/26/2015.
Violation Division:	Riverside County Department of Env Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	15729
Site Name:	Calimesa Shell Station
Violation Date:	04-28-2017
Citation:	23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description:	Failure to have a UST Response Plan available on site.
Violation Notes:	Returned to compliance on 09/13/2017.
Violation Division:	Riverside County Department of Env Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	15729
Site Name:	Calimesa Shell Station

SHELL #1213 (Continued) **S104791922**

Violation Date:	04-06-2016
Citation:	23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description:	Failure to maintain on site an approved monitoring plan.
Violation Notes:	Returned to compliance on 05/12/2016.
Violation Division:	Riverside County Department of Env Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	15729
Site Name:	Calimesa Shell Station
Violation Date:	05-17-2017
Citation:	HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 09/13/2017.
Violation Division:	Riverside County Department of Env Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	15729
Site Name:	Calimesa Shell Station
Violation Date:	03-27-2014
Citation:	23 CCR 16 2715(c)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)(2)
Violation Description:	Failure to comply with one or more of the following: maintain the spill bucket in good condition, containment free of debris/liquid, and/or to remove the contents of the spill bucket when a release/leak/spill was observed.
Violation Notes:	Returned to compliance on 04/30/2015.
Violation Division:	Riverside County Department of Env Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	15729
Site Name:	Calimesa Shell Station
Violation Date:	05-12-2016
Citation:	HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description:	Failure to annually review and electronically certify that the business plan is complete, accurate, and up-to-date.
Violation Notes:	Returned to compliance on 05/13/2016.
Violation Division:	Riverside County Department of Env Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	15729
Site Name:	Calimesa Shell Station
Violation Date:	03-28-2017
Citation:	HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description:	Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 05/26/2017.

SHELL #1213 (Continued) **S104791922**

Violation Division:	Riverside County Department of Env Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	15729
Site Name:	Calimesa Shell Station
Violation Date:	05-17-2017
Citation:	23 CCR 6.7 25284, 25286 - California Code of Regulations, Title 23, Chapter 6.7, Section(s) 25284, 25286
Violation Description:	Failure to submit a complete and accurate application for a permit to operate a UST, or for renewal of the permit.
Violation Notes:	Returned to compliance on 08/30/2017.
Violation Division:	Riverside County Department of Env Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	15729
Site Name:	Calimesa Shell Station
Violation Date:	03-28-2017
Citation:	23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description:	Failure to have a UST Monitoring Plan available on site.
Violation Notes:	Returned to compliance on 08/30/2017.
Violation Division:	Riverside County Department of Env Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	15729
Site Name:	Calimesa Shell Station
Violation Date:	03-25-2019
Citation:	23 CCR 16 2712(b)(1)(G) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)(1)(G)
Violation Description:	Failure to comply with one or more of the following overfill prevention equipment requirements: Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling. Install/retrofit overfill prevention equipment that does not use flow restrictors on vent piping to meet overfill prevention equipment requirements when the overfill prevention equipment is installed, repaired, or replaced on and after October 1,- 2018. For USTs installed before October 1, 2018, perform an inspection by October 13, 2018 and every 36 months thereafter. For USTs installed on and after October- 1,- 2018, perform an inspection at installation and every 36 months thereafter. Inspected within 30 days after a repair to the overfill prevention equipment. Inspected using an applicable manufacturer guidelines, industry codes, engineering standards, or a method approved by a professional engineer. Inspected by a certified UST service technician. Maintain records of overfill prevention equipment inspection for 36 months.
Violation Notes:	Returned to compliance on 03/25/2019. OBSERVATION: An overfill

SHELL #1213 (Continued) **S104791922**

equipment inspection was not completed by the October 13, 2018 deadline. CORRECTIVE ACTION: Owner/operator shall immediately schedule and complete an overfill equipment inspection providing the required 48 hour notification prior to conducting the inspection. Inspection results and all supporting documentation (inspection procedures used, tank charts, printouts, etc.) must be submitted to this Department within 30 days upon completion of the inspection. Overfill inspection conducted today. Violation corrected on site.

Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

Site ID: 15729
Site Name: Calimesa Shell Station
Violation Date: 05-17-2017
Citation: 23 CCR 16 2712 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712
Violation Description: Failure to comply with any of the applicable requirements of the permit issued for the operation of the UST system.
Violation Notes: Returned to compliance on 09/13/2017.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

Site ID: 15729
Site Name: Calimesa Shell Station
Violation Date: 03-26-2015
Citation: 23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)
Violation Description: Failure of the pressurized piping to meet one or more of the following requirements: monitored at least hourly with the capability of detecting a release of 3.0 gallons per hour, and will restrict the flow of product through the piping or trigger an alarm when a release occurs.
Violation Notes: Returned to compliance on 04/30/2015.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

Site ID: 15729
Site Name: Calimesa Shell Station
Violation Date: 04-28-2017
Citation: 23 CCR 16 2641(h) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(h)
Violation Description: Failure to have an approved UST Response Plan.
Violation Notes: Returned to compliance on 05/17/2017.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

Site ID: 15729
Site Name: Calimesa Shell Station
Violation Date: 04-28-2017
Citation: 19 CCR 6.95 25508(a)(1) - California Code of Regulations, Title 19, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.

SHELL #1213 (Continued) **S104791922**

Violation Notes:	Returned to compliance on 05/17/2017.
Violation Division:	Riverside County Department of Env Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	15729
Site Name:	Calimesa Shell Station
Violation Date:	03-28-2017
Citation:	23 CCR 16 2641(h) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(h)
Violation Description:	Failure to have an approved UST Monitoring Plan.
Violation Notes:	Returned to compliance on 08/30/2017.
Violation Division:	Riverside County Department of Env Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	15729
Site Name:	Calimesa Shell Station
Violation Date:	04-28-2017
Citation:	HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description:	Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 05/17/2017.
Violation Division:	Riverside County Department of Env Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	15729
Site Name:	Calimesa Shell Station
Violation Date:	03-31-2020
Citation:	HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description:	Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes:	OBSERVATION: Current Certification of Financial Responsibility and Letter From the Chief Financial Officer have not been submitted to the CUPA. CORRECTIVE ACTION: Owner/operator shall submit a current and complete Certification of Financial Responsibility in CERS.
Violation Division:	Riverside County Department of Env Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	15729
Site Name:	Calimesa Shell Station
Violation Date:	03-27-2014
Citation:	HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description:	Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes:	Returned to compliance on 04/30/2015.
Violation Division:	Riverside County Department of Env Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	15729

SHELL #1213 (Continued) **S104791922**

Site Name: Calimesa Shell Station
Violation Date: 03-27-2014
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 04/06/2016.
Violation Division: Riverside County Department of Env Health
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-25-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Note: Facility had to conduct a cold start last year due to upgrade of dispensers on site. Owner/operator shall ensure this department is notified of any future cold starts that occur and have a non-witnessed monitoring certification performed to ensure sensor functionality. Failure to notify this department of a cold start may result in enforcement action. Note: On the DO reports, if there not any alarms in the last month, the designated operator should mark "N/A" for alarms being properly responded to on page 2 of the inspection report.
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-26-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-27-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-27-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-28-2017
Violations Found: No

SHELL #1213 (Continued) **S104791922**

Eval Type: Routine done by local agency
Eval Notes: Generator inspection
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-28-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Handler inspection
Eval Division: Riverside County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-28-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Monitoring Certification
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-31-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-31-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Clean Air Testing on site to perform annual monitoring certification. Sensor holsters have detached from sump walls in diesel turbine sump and 91 fill sump, were returned to upright position to detect leak at earliest possible opportunity while on site. Adjusted LLD for diesel and 91. **NOTE** Facility shall ensure all monthly DO reports are reviewed and signed within 48 hours of receipt.
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-31-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: SDS acquired while on site.
Eval Division: Riverside County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection

SHELL #1213 (Continued) **S104791922**

Eval Date: 04-06-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: CMD
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-06-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Disclosure inspection
Eval Division: Riverside County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-06-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Generator inspection
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-12-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-28-2017
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Follow up inspection
Eval Division: Riverside County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-28-2017
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Follow up inspection
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-30-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency

SHELL #1213 (Continued) **S104791922**

Eval Notes:	Not reported
Eval Division:	Riverside County Department of Env Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-12-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Follow up inspection
Eval Division:	Riverside County Department of Env Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-12-2016
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Follow up inspection
Eval Division:	Riverside County Department of Env Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-17-2017
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Follow up inspection
Eval Division:	Riverside County Department of Env Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-17-2017
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Follow up inspection
Eval Division:	Riverside County Department of Env Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-23-2019
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Riverside County Department of Env Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-12-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Cold start monitoring cert had been done the previous day on accident our Dept was told the wrong date.
Eval Division:	Riverside County Department of Env Health

SHELL #1213 (Continued) **S104791922**

Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-30-2017
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Follow up inspection
Eval Division: Riverside County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-30-2017
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Follow up inspection
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-08-2019
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS

Enforcement Action:
Site ID: 15729
Site Name: Calimesa Shell Station
Site Address: 1213 CALIMESA BLVD
Site City: CALIMESA
Site Zip: 92320
Enf Action Date: 03-26-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Riverside County Department of Env Health
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 15729
Site Name: Calimesa Shell Station
Site Address: 1213 CALIMESA BLVD
Site City: CALIMESA
Site Zip: 92320
Enf Action Date: 03-27-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Riverside County Department of Env Health
Enf Action Program: HMRRP
Enf Action Source: CERS

SHELL #1213 (Continued) **S104791922**

Site ID:	15729
Site Name:	Calimesa Shell Station
Site Address:	1213 CALIMESA BLVD
Site City:	CALIMESA
Site Zip:	92320
Enf Action Date:	03-27-2014
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Riverside County Department of Env Health
Enf Action Program:	UST
Enf Action Source:	CERS

Coordinates:

Site ID:	15729
Facility Name:	Calimesa Shell Station
Env Int Type Code:	HWG
Program ID:	10327081
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.993590
Longitude:	-117.056840

Affiliation:

Affiliation Type Desc:	Document Preparer
Entity Name:	Robert Zerby
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	Bahman Nikkar
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(909) 795-1437

Affiliation Type Desc:	Property Owner
Entity Name:	Ben Nikkar
Entity Title:	Not reported
Affiliation Address:	1213 Calimesa Blvd
Affiliation City:	Calimesa
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92320
Affiliation Phone:	(310) 466-5050

Affiliation Type Desc:	CUPA District
Entity Name:	Riverside Cnty Env Health

SHELL #1213 (Continued) **S104791922**

Entity Title:	Not reported
Affiliation Address:	4065 County Circle Drive, Room 104
Affiliation City:	Riverside
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92503
Affiliation Phone:	(951) 358-5055
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	1213 Calimesa Blvd
Affiliation City:	Calimesa
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92320
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Saba Partners, Inc
Entity Title:	Not reported
Affiliation Address:	1213 Calimesa Blvd
Affiliation City:	Calimesa
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92320
Affiliation Phone:	(909) 795-1437
Affiliation Type Desc:	Parent Corporation
Entity Name:	Mission Service and Parts Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	UST Tank Operator
Entity Name:	Bahman Nikkar
Entity Title:	Not reported
Affiliation Address:	1213 Calimesa Blvd
Affiliation City:	Calimesa
Affiliation State:	ca
Affiliation Country:	United States
Affiliation Zip:	92320
Affiliation Phone:	(310) 466-5050
Affiliation Type Desc:	Identification Signer
Entity Name:	Robert Zerby
Entity Title:	Designated Operator
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

SHELL #1213 (Continued) **S104791922**

Affiliation Type Desc: UST Tank Owner
Entity Name: Bahman Nikkar
Entity Title: Not reported
Affiliation Address: 1213 Calimesa Blvd
Affiliation City: Calimesa
Affiliation State: ca
Affiliation Country: United States
Affiliation Zip: 92320
Affiliation Phone: (310) 466-5050

Affiliation Type Desc: Environmental Contact
Entity Name: Robert Zerby
Entity Title: Not reported
Affiliation Address: 2601 Yorba Linda Blvd.
Affiliation City: Fullerton
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92831
Affiliation Phone: Not reported

Affiliation Type Desc: UST Property Owner Name
Entity Name: Bahman Nikkar
Entity Title: Not reported
Affiliation Address: 1213 Calimesa Blvd
Affiliation City: Calimesa
Affiliation State: ca
Affiliation Country: United States
Affiliation Zip: 92320
Affiliation Phone: (310) 466-5050

Name: SHELL #1213
Address: 1213 CALIMESA BLVD
City,State,Zip: CALIMESA, CA 92320
Site ID: 186903
CERS ID: T0606500312
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: CARL BERNHARDT - SANTA ANA RWQCB (REGION 8)
Entity Title: Not reported
Affiliation Address: 3737 MAIN STREET, SUITE 500
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9517824495

Affiliation Type Desc: Local Agency Caseworker
Entity Name: Riverside County LOP - RIVERSIDE COUNTY LOP
Entity Title: Not reported
Affiliation Address: 3880 LEMON ST SUITE 200
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9519558980

C24 **DOLLAR GENERAL STORE 14279** **RCRA NonGen / NLR** **1024843251**
NNE **1065 CALIMESA BLVD** **CAL000394453**
1/8-1/4 **CALIMESA, CA 92320**
0.170 mi.
900 ft. **Site 7 of 8 in cluster C**

Relative:
Higher

Actual:
2407 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:	2014-02-27 00:00:00.0
Handler Name:	DOLLAR GENERAL STORE 14279
Handler Address:	1065 CALIMESA BLVD
Handler City,State,Zip:	CALIMESA, CA 92320
EPA ID:	CAL000394453
Contact Name:	KRISTIN ELLIOTT
Contact Address:	100 MISSION RIDGE
Contact City,State,Zip:	GOODLETTSVILLE, TN 37072
Contact Telephone:	615-855-5365
Contact Fax:	Not reported
Contact Email:	ENVCOMPLIANCE@DOLLARGENERAL.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	100 MISSION RDG
Mailing City,State,Zip:	GOODLETTSVILLE, TN 37072-2171
Owner Name:	DOLLAR GENERAL
Owner Type:	Other
Operator Name:	KRISTIN ELLIOTT
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported

DOLLAR GENERAL STORE 14279 (Continued) **1024843251**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-09-06 17:03:59.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	KRISTIN ELLIOTT
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	100 MISSION RIDGE
Owner/Operator City,State,Zip:	GOODLETTSVILLE, TN 37072
Owner/Operator Telephone:	615-855-5365
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	DOLLAR GENERAL
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	100 MISSION RDG
Owner/Operator City,State,Zip:	GOODLETTSVILLE, TN 37072-2171
Owner/Operator Telephone:	615-855-4000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

DOLLAR GENERAL STORE 14279 (Continued) **1024843251**

Historic Generators:
- Receive Date: 2014-02-27 00:00:00.0
- Handler Name: DOLLAR GENERAL STORE 14279
- Federal Waste Generator Description: Not a generator, verified
- State District Owner: Not reported
- Large Quantity Handler of Universal Waste: No
- Recognized Trader Importer: No
- Recognized Trader Exporter: No
- Spent Lead Acid Battery Importer: No
- Spent Lead Acid Battery Exporter: No
- Current Record: Yes
- Non Storage Recycler Activity: Not reported
- Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
- NAICS Code: 45299
- NAICS Description: ALL OTHER GENERAL MERCHANDISE STORES

Facility Has Received Notices of Violations:
- Violations: No Violations Found

Evaluation Action Summary:
- Evaluations: No Evaluations Found

C25 **DOLLAR GENERAL #14279** **CERS HAZ WASTE** **S118235638**
NNE **1065 CALIMESA BLVD** **HAZNET** **N/A**
1/8-1/4 **CALIMESA, CA 92320** **CERS**
0.170 mi. **HWTS**
900 ft. **Site 8 of 8 in cluster C**

Relative: Higher

Actual: 2407 ft.

CERS HAZ WASTE:
- Name: DOLLAR GENERAL #14279
- Address: 1065 CALIMESA BLVD
- City,State,Zip: CALIMESA, CA 92320
- Site ID: 391608
- CERS ID: 10623754
- CERS Description: Hazardous Waste Generator

HAZNET:
- Name: DOLLAR GENERAL STORE 14279
- Address: 1065 CALIMESA BLVD
- Address 2: Not reported
- City,State,Zip: CALIMESA, CA 370722171
- Contact: KRISTIN ELLIOTT
- Telephone: 6158555365
- Mailing Name: Not reported
- Mailing Address: 100 MISSION RDG

- Year: 2019
- Gepaid: CAL000394453
- TSD EPA ID: CAD008364432
- CA Waste Code: 331 - Off-specification, aged or surplus organics
- Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

DOLLAR GENERAL #14279 (Continued) **S118235638**

Tons: 0.00750

Year: 2019
Gepaid: CAL000394453
TSD EPA ID: AZR000515924
CA Waste Code: 331 - Off-specification, aged or surplus organics
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.55450

Year: 2019
Gepaid: CAL000394453
TSD EPA ID: NVD980895338
CA Waste Code: 331 - Off-specification, aged or surplus organics
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.00900

Year: 2019
Gepaid: CAL000394453
TSD EPA ID: CAD008364432
CA Waste Code: 181 - Other inorganic solid waste
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.00850

Year: 2019
Gepaid: CAL000394453
TSD EPA ID: CAD008364432
CA Waste Code: 122 - Alkaline solution without metals pH >= 12.5
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.07550

Year: 2018
Gepaid: CAL000394453
TSD EPA ID: CAD008364432
CA Waste Code: 122 - Alkaline solution without metals pH >= 12.5
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.03400

Year: 2018
Gepaid: CAL000394453
TSD EPA ID: AZR000515924
CA Waste Code: 331 - Off-specification, aged or surplus organics
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.31950

Year: 2018
Gepaid: CAL000394453
TSD EPA ID: NVD980895338
CA Waste Code: 331 - Off-specification, aged or surplus organics
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.06350

DOLLAR GENERAL #14279 (Continued) **S118235638**

Year:	2018
Gepaid:	CAL000394453
TSD EPA ID:	NVD980895338
CA Waste Code:	141 - Off-specification, aged or surplus inorganics
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.00050

Year:	2017
Gepaid:	CAL000394453
TSD EPA ID:	CAD008364432
CA Waste Code:	122 - Alkaline solution without metals pH >= 12.5
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.0115

Click this hyperlink while viewing on your computer to access
17 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:

Year:	2016
Gen EPA ID:	CAL000394453
Shipment Date:	20150726
Creation Date:	2/4/2016 22:15:46
Receipt Date:	20150803
Manifest ID:	008945697FLE
Trans EPA ID:	NJD986607380
Trans Name:	MAUMEE EXPRESS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT
TSDF EPA ID:	ARD981057870
Trans Name:	RINECO
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0045
Waste Quantity:	9
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150726
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008945697FLE
Trans EPA ID:	NJD986607380
Trans Name:	MAUMEE EXPRESS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT

DOLLAR GENERAL #14279 (Continued) **S118235638**

TSDF EPA ID:	ARD981057870
Trans Name:	RINECO
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150726
Creation Date:	2/4/2016 22:15:46
Receipt Date:	20150803
Manifest ID:	008945697FLE
Trans EPA ID:	NJD986607380
Trans Name:	MAUMEE EXPRESS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT
TSDF EPA ID:	ARD981057870
Trans Name:	RINECO
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D035
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.008
Waste Quantity:	16
Quantity Unit:	P
Additional Code 1:	D027
Additional Code 2:	D022
Additional Code 3:	D001
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150726
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008945697FLE
Trans EPA ID:	NJD986607380
Trans Name:	MAUMEE EXPRESS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT
TSDF EPA ID:	ARD981057870
Trans Name:	RINECO
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

DOLLAR GENERAL #14279 (Continued) **S118235638**

Quantity Tons:	0.0035
Waste Quantity:	7
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150726
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008945697FLE
Trans EPA ID:	NJD986607380
Trans Name:	MAUMEE EXPRESS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT
TSDF EPA ID:	ARD981057870
Trans Name:	RINECO
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.009
Waste Quantity:	18
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150726
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008945697FLE
Trans EPA ID:	NJD986607380
Trans Name:	MAUMEE EXPRESS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT
TSDF EPA ID:	ARD981057870
Trans Name:	RINECO
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.007
Waste Quantity:	14
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

DOLLAR GENERAL #14279 (Continued) **S118235638**

Additional Code 5:	Not reported
Shipment Date:	20150726
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008945697FLE
Trans EPA ID:	NJD986607380
Trans Name:	MAUMEE EXPRESS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT
TSDF EPA ID:	ARD981057870
Trans Name:	RINECO
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150726
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008945697FLE
Trans EPA ID:	NJD986607380
Trans Name:	MAUMEE EXPRESS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT
TSDF EPA ID:	ARD981057870
Trans Name:	RINECO
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0075
Waste Quantity:	15
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150726
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008945697FLE
Trans EPA ID:	NJD986607380
Trans Name:	MAUMEE EXPRESS INC

DOLLAR GENERAL #14279 (Continued) **S118235638**

Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT
TSDF EPA ID:	ARD981057870
Trans Name:	RINECO
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0405
Waste Quantity:	81
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20150726
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008945697FLE
Trans EPA ID:	NJD986607380
Trans Name:	MAUMEE EXPRESS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT
TSDF EPA ID:	ARD981057870
Trans Name:	RINECO
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2015
Gen EPA ID:	CAL000394453

Shipment Date:	20150726
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008945697FLE
Trans EPA ID:	NJD986607380
Trans Name:	MAUMEE EXPRESS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT
TSDF EPA ID:	ARD981057870
Trans Name:	RINECO

DOLLAR GENERAL #14279 (Continued) **S118235638**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0035
Waste Quantity:	7
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150726
Creation Date:	2/4/2016 22:15:46
Receipt Date:	20150803
Manifest ID:	008945697FLE
Trans EPA ID:	NJD986607380
Trans Name:	MAUMEE EXPRESS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT
TSDF EPA ID:	ARD981057870
Trans Name:	RINECO
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D035
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.008
Waste Quantity:	16
Quantity Unit:	P
Additional Code 1:	D027
Additional Code 2:	D022
Additional Code 3:	D001
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150726
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008945697FLE
Trans EPA ID:	NJD986607380
Trans Name:	MAUMEE EXPRESS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT
TSDF EPA ID:	ARD981057870
Trans Name:	RINECO
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.007
Waste Quantity:	14

DOLLAR GENERAL #14279 (Continued) **S118235638**

Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150726
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008945697FLE
Trans EPA ID:	NJD986607380
Trans Name:	MAUMEE EXPRESS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT
TSDF EPA ID:	ARD981057870
Trans Name:	RINECO
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150726
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008945697FLE
Trans EPA ID:	NJD986607380
Trans Name:	MAUMEE EXPRESS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT
TSDF EPA ID:	ARD981057870
Trans Name:	RINECO
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0075
Waste Quantity:	15
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150726

DOLLAR GENERAL #14279 (Continued) **S118235638**

Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008945697FLE
Trans EPA ID:	NJD986607380
Trans Name:	MAUMEE EXPRESS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT
TSDF EPA ID:	ARD981057870
Trans Name:	RINECO
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0405
Waste Quantity:	81
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20150726
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008945697FLE
Trans EPA ID:	NJD986607380
Trans Name:	MAUMEE EXPRESS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT
TSDF EPA ID:	ARD981057870
Trans Name:	RINECO
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20150726
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008945697FLE
Trans EPA ID:	NJD986607380
Trans Name:	MAUMEE EXPRESS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT
TSDF EPA ID:	ARD981057870

DOLLAR GENERAL #14279 (Continued) **S118235638**

Trans Name:	RINECO
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0035
Waste Quantity:	7
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150726
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008945697FLE
Trans EPA ID:	NJD986607380
Trans Name:	MAUMEE EXPRESS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT
TSDF EPA ID:	ARD981057870
Trans Name:	RINECO
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.009
Waste Quantity:	18
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150726
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008945697FLE
Trans EPA ID:	NJD986607380
Trans Name:	MAUMEE EXPRESS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT
TSDF EPA ID:	ARD981057870
Trans Name:	RINECO
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

DOLLAR GENERAL #14279 (Continued) **S118235638**

Quantity Tons:	0.007
Waste Quantity:	14
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2017
Gen EPA ID:	CAL000394453
Shipment Date:	20171206
Creation Date:	6/28/2018 18:30:17
Receipt Date:	20171214
Manifest ID:	010758937FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000217000
Trans 2 Name:	LA CHIQUITA TRUCKING
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0025
Waste Quantity:	5
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171206
Creation Date:	6/28/2018 18:30:17
Receipt Date:	20171214
Manifest ID:	010758937FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000217000
Trans 2 Name:	LA CHIQUITA TRUCKING
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0355
Waste Quantity:	71
Quantity Unit:	P

DOLLAR GENERAL #14279 (Continued) **S118235638**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171206
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	010758937FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000217000
Trans 2 Name:	LA CHIQUITA TRUCKING
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.043
Waste Quantity:	86
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171206
Creation Date:	6/28/2018 18:30:17
Receipt Date:	20171214
Manifest ID:	010758937FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000217000
Trans 2 Name:	LA CHIQUITA TRUCKING
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0045
Waste Quantity:	9
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171206

DOLLAR GENERAL #14279 (Continued) **S118235638**

Creation Date:	6/28/2018 18:30:17
Receipt Date:	20171214
Manifest ID:	010758937FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000217000
Trans 2 Name:	LA CHIQUITA TRUCKING
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.002
Waste Quantity:	4
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171014
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	010758797FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000217554
Trans 2 Name:	CRUZ CONTAINERS LOGISTICS INC
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0385
Waste Quantity:	77
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171014
Creation Date:	6/27/2018 18:30:40
Receipt Date:	20171019
Manifest ID:	010758797FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000217554
Trans 2 Name:	CRUZ CONTAINERS LOGISTICS INC

DOLLAR GENERAL #14279 (Continued) **S118235638**

TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.025
Waste Quantity:	50
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171014
Creation Date:	6/27/2018 18:30:40
Receipt Date:	20171019
Manifest ID:	010758797FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000217554
Trans 2 Name:	CRUZ CONTAINERS LOGISTICS INC
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.001
Waste Quantity:	2
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171014
Creation Date:	6/27/2018 18:30:40
Receipt Date:	20171019
Manifest ID:	010758797FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000217554
Trans 2 Name:	CRUZ CONTAINERS LOGISTICS INC
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No

DOLLAR GENERAL #14279 (Continued) **S118235638**

	Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0005
Waste Quantity:	1
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171014
Creation Date:	6/27/2018 18:30:40
Receipt Date:	20171019
Manifest ID:	010758797FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000217554
Trans 2 Name:	CRUZ CONTAINERS LOGISTICS INC
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.001
Waste Quantity:	2
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2014
Gen EPA ID:	CAL000394453
Shipment Date:	20141024
Creation Date:	1/14/2015 22:14:51
Receipt Date:	20141029
Manifest ID:	000874295PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0005
Waste Quantity:	1

DOLLAR GENERAL #14279 (Continued) **S118235638**

Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141024
Creation Date:	1/14/2015 22:14:51
Receipt Date:	20141029
Manifest ID:	000874295PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0025
Waste Quantity:	5
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141024
Creation Date:	1/14/2015 22:14:51
Receipt Date:	20141029
Manifest ID:	000874295PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0005
Waste Quantity:	1
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141024

DOLLAR GENERAL #14279 (Continued) **S118235638**

Creation Date:	1/14/2015 22:14:51
Receipt Date:	20141029
Manifest ID:	000874295PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0055
Waste Quantity:	11
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141024
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000874295PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0155
Waste Quantity:	31
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140804
Creation Date:	10/26/2014 22:15:05
Receipt Date:	20140812
Manifest ID:	000822704PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP

DOLLAR GENERAL #14279 (Continued) **S118235638**

TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0135
Waste Quantity:	27
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140804
Creation Date:	10/26/2014 22:15:05
Receipt Date:	20140812
Manifest ID:	000822704PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.001
Waste Quantity:	2
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

CERS:

Name:	DOLLAR GENERAL #14279
Address:	1065 CALIMESA BLVD
City,State,Zip:	CALIMESA, CA 92320
Site ID:	391608
CERS ID:	10623754
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	391608
Site Name:	Dollar General #14279
Violation Date:	10-07-2015
Citation:	HSC 6.11 25404.1 - California Health and Safety Code, Chapter 6.11, Section(s) 25404.1
Violation Description:	Failure to obtain and/or maintain an active hazardous waste generator

DOLLAR GENERAL #14279 (Continued) **S118235638**

permit.
Violation Notes: Returned to compliance on 11/12/2015.
Violation Division: Riverside County Department of Env Health
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-07-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-11-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS

Enforcement Action:
Site ID: 391608
Site Name: Dollar General #14279
Site Address: 1065 CALIMESA BLVD
Site City: CALIMESA
Site Zip: 92320
Enf Action Date: 10-07-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Riverside County Department of Env Health
Enf Action Program: HW
Enf Action Source: CERS

Coordinates:
Site ID: 391608
Facility Name: Dollar General #14279
Env Int Type Code: HMBP
Program ID: 10623754
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.998590
Longitude: -117.059640

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Riverside Cnty Env Health
Entity Title: Not reported
Affiliation Address: 4065 County Circle Drive, Room 104
Affiliation City: Riverside

DOLLAR GENERAL #14279 (Continued) **S118235638**

Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92503
Affiliation Phone:	(951) 358-5055
Affiliation Type Desc:	Document Preparer
Entity Name:	Nina Burse
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	Dollar General
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	ERIC VOYLES
Entity Title:	Not reported
Affiliation Address:	Environmental Compliance, 100 MISSION RIDGE
Affiliation City:	GOODLETTSVILLE
Affiliation State:	TN
Affiliation Country:	Not reported
Affiliation Zip:	37072
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	Environmental Compliance, 100 MISSION RIDGE
Affiliation City:	Goodlettsville
Affiliation State:	TN
Affiliation Country:	Not reported
Affiliation Zip:	37072
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Nina Burse
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Dolgen California Llc

DOLLAR GENERAL #14279 (Continued) **S118235638**

Entity Title:	Not reported
Affiliation Address:	100 MISSION RIDGE
Affiliation City:	GOODLETTSVILLE
Affiliation State:	TN
Affiliation Country:	United States
Affiliation Zip:	37072
Affiliation Phone:	(615) 855-4024
Affiliation Type Desc:	Operator
Entity Name:	Dollar General #14279
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(909) 570-8087

HWTS:

Name:	DOLLAR GENERAL STORE 14279
Address:	1065 CALIMESA BLVD
Address 2:	Not reported
City,State,Zip:	CALIMESA, CA 92320
EPA ID:	CAL000394453
Inactive Date:	Not reported
Create Date:	02/27/2014
Last Act Date:	08/17/2020
Mailing Name:	Not reported
Mailing Address:	100 MISSION RDG
Mailing Address 2:	Not reported
Mailing City,State,Zip:	GOODLETTSVILLE, TN 370722171
Owner Name:	DOLLAR GENERAL
Owner Address:	100 MISSION RDG
Owner Address 2:	Not reported
Owner City,State,Zip:	GOODLETTSVILLE, TN 370722171
Contact Name:	KRISTIN ELLIOTT
Contact Address:	100 MISSION RIDGE
Contact Address 2:	Not reported
City,State,Zip:	GOODLETTSVILLE, TN 37072

NAICS:

EPA ID:	CAL000394453
Create Date:	2014-02-27 08:15:34.820
NAICS Code:	45299
NAICS Description:	All Other General Merchandise Stores
Issued EPA ID Date:	2014-02-27 08:15:34.81700
Inactive Date:	Not reported
Facility Name:	DOLLAR GENERAL STORE 14279
Facility Address:	1065 CALIMESA BLVD
Facility Address 2:	Not reported
Facility City:	CALIMESA
Facility County:	Not reported
Facility State:	CA
Facility Zip:	92320

D26 **G & M OIL CO/CHEVRON** **UST** **U003802560**
SE **499 SANDALWOOD DR** **N/A**
1/8-1/4 **CALIMESA, CA 92320**
0.176 mi.
928 ft. **Site 1 of 3 in cluster D**

Relative:
Higher

Actual:
2408 ft.

UST:

Name:	G & M OIL CO/CHEVRON
Address:	499 SANDALWOOD DR
City,State,Zip:	CALIMESA, CA 92320
Facility ID:	332
Permitting Agency:	RIVERSIDE COUNTY
Latitude:	33.9941473
Longitude:	-117.0552626

Name:	G&M OIL CO. #80
Address:	499 SANDALWOOD DR
City,State,Zip:	CALIMESA, CA 92320
Facility ID:	FA0021848
Permitting Agency:	Riverside County Department of Environmental Health
Latitude:	33.99291
Longitude:	-117.05646

RIVERSIDE CO. UST:

Name:	G & M OIL CO/CHEVRON #80
Address:	499 SANDALWOOD DR
City,State,Zip:	CALIMESA, CA 92320
Region:	RIVERSIDE
Total Tanks:	4

D27 **G & M #80** **RCRA NonGen / NLR** **1024802873**
SE **499 SANDALWOOD** **CAL000249755**
1/8-1/4 **CALIMESA, CA 92320**
0.176 mi.
928 ft. **Site 2 of 3 in cluster D**

Relative:
Higher

Actual:
2408 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:		2002-04-10 00:00:00.0
Handler Name:	G & M #80	
Handler Address:		499 SANDALWOOD
Handler City,State,Zip:		CALIMESA, CA 92320
EPA ID:		CAL000249755
Contact Name:		SOLEDAD GERMAN
Contact Address:		16868 A LANE
Contact City,State,Zip:		HUNTINGTON BEACH, CA 92647
Contact Telephone:		714-375-4700
Contact Fax:		714-375-2009
Contact Email:		SGERMAN@GMOC.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		16868 A LN

G & M #80 (Continued) **1024802873**

Mailing City,State,Zip:	HUNTINGTON BEACH, CA 92647-4831
Owner Name:	G & M OIL CO LLC
Owner Type:	Other
Operator Name:	SOLEDAD GERMAN
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-09-05 15:45:56.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No

G & M #80 (Continued) **1024802873**

Recycler Activity Without Storage: No
Manifest Broker: No
Sub-Part P Indicator: No

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: G & M OIL CO LLC
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 16868 A LN
Owner/Operator City,State,Zip: HUNTINGTON BEACH, CA 92647-0000
Owner/Operator Telephone: 714-375-4700
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: SOLEDAD GERMAN
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 16868 A LANE
Owner/Operator City,State,Zip: HUNTINGTON BEACH, CA 92647
Owner/Operator Telephone: 714-375-4700
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2002-04-10 00:00:00.0
Handler Name: G & M #80
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 44711
NAICS Description: GASOLINE STATIONS WITH CONVENIENCE STORES

NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

G & M #80 (Continued) **1024802873**

Evaluation Action Summary:
Evaluations: No Evaluations Found

D28 **G&M OIL CO. #80** **CERS HAZ WASTE** **S123499718**
SE **499 SANDALWOOD DR** **CERS TANKS** **N/A**
1/8-1/4 **CALIMESA, CA 92320** **CERS**
0.176 mi.
928 ft. **Site 3 of 3 in cluster D**

Relative: Higher

Actual: 2408 ft.

CERS HAZ WASTE:
Name: G&M OIL CO. #80
Address: 499 SANDALWOOD DR
City,State,Zip: CALIMESA, CA 92320
Site ID: 118548
CERS ID: 10138297
CERS Description: Hazardous Waste Generator

CERS TANKS:
Name: G&M OIL CO. #80
Address: 499 SANDALWOOD DR
City,State,Zip: CALIMESA, CA 92320
Site ID: 118548
CERS ID: 10138297
CERS Description: Underground Storage Tank

CERS:
Name: G&M OIL CO. #80
Address: 499 SANDALWOOD DR
City,State,Zip: CALIMESA, CA 92320
Site ID: 118548
CERS ID: 10138297
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 118548
Site Name: G&M Oil Co. #80
Violation Date: 12-16-2015
Citation: HSC 6.7 25286(a) - California Health and Safety Code, Chapter 6.7, Section(s) 25286(a)
Violation Description: Failure to submit an complete and accurate application for a permit to operate an underground storage tank, or for renewal of the permit.
Violation Notes: Returned to compliance on 01/21/2016.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

Site ID: 118548
Site Name: G&M Oil Co. #80
Violation Date: 12-16-2015
Citation: 23 CCR 16 2632, 2634, 2636, 2666 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2632, 2634, 2636, 2666
Violation Description: Failure of the leak detection equipment to have an audible and visual alarm as required.
Violation Notes: Returned to compliance on 12/16/2015.
Violation Division: Riverside County Department of Env Health
Violation Program: UST

G&M OIL CO. #80 (Continued) **S123499718**

Violation Source:	CERS
Site ID:	118548
Site Name:	G&M Oil Co. #80
Violation Date:	12-16-2015
Citation:	23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)
Violation Description:	Failure of the pressurized piping to meet one or more of the following requirements: monitored at least hourly with the capability of detecting a release of 3.0 gallons per hour, and will restrict the flow of product through the piping or trigger an alarm when a release occurs.
Violation Notes:	Returned to compliance on 12/16/2015.
Violation Division:	Riverside County Department of Env Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	118548
Site Name:	G&M Oil Co. #80
Violation Date:	01-06-2014
Citation:	HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections
Violation Description:	UST Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 02/27/2015.
Violation Division:	Riverside County Department of Env Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	118548
Site Name:	G&M Oil Co. #80
Violation Date:	12-16-2015
Citation:	23 CCR 16 2632, 2634, 2636, 2666 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2632, 2634, 2636, 2666
Violation Description:	Failure of the leak detection equipment to be properly programmed or properly operated.
Violation Notes:	Returned to compliance on 12/16/2015.
Violation Division:	Riverside County Department of Env Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	118548
Site Name:	G&M Oil Co. #80
Violation Date:	12-16-2015
Citation:	23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description:	Failure to maintain on site an approved monitoring plan.
Violation Notes:	Returned to compliance on 01/21/2016.
Violation Division:	Riverside County Department of Env Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	118548
Site Name:	G&M Oil Co. #80
Violation Date:	01-08-2019
Citation:	23 CCR 16 2712(b)(1)(G) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)(1)(G)
Violation Description:	Failure to comply with one or more of the following overfill

G&M OIL CO. #80 (Continued) **S123499718**

prevention equipment requirements: Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling. Install/retrofit overfill prevention equipment that does not use flow restrictors on vent piping to meet overfill prevention equipment requirements when the overfill prevention equipment is installed, repaired, or replaced on and after October 1,- 2018. For USTs installed before October 1, 2018, perform an inspection by October 13, 2018 and every 36 months thereafter. For USTs installed on and after October- 1,- 2018, perform an inspection at installation and every 36 months thereafter. Inspected within 30 days after a repair to the overfill prevention equipment. Inspected using an applicable manufacturer guidelines, industry codes, engineering standards, or a method approved by a professional engineer. Inspected by a certified UST service technician. Maintain records of overfill prevention equipment inspection for 36 months.

Violation Notes: Returned to compliance on 03/22/2019.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

Site ID: 118548
Site Name: G&M Oil Co. #80
Violation Date: 12-16-2015
Citation: 23 CCR 16 2636(f)(5) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(5)
Violation Description: Failure to maintain all product piping outside the dispenser to be fail-safe and shut down the pump when a leak is detected and the monitoring system shuts down the pump or flow restriction occurs when a leak is detected in the under dispenser containment.
Violation Notes: Returned to compliance on 12/16/2015.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

Site ID: 118548
Site Name: G&M Oil Co. #80
Violation Date: 12-15-2016
Citation: 23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)
Violation Description: Failure of the line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements:Monitor at least hourly.Be capable of detecting a release of 3.0 gallons per hour at 10 p.s.i.g. Restrict or shut off the flow of product through the piping when a leak is detected.
Violation Notes: Returned to compliance on 12/15/2016.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

G&M OIL CO. #80 (Continued) **S123499718**

Site ID: 118548
Site Name: G&M Oil Co. #80
Violation Date: 11-29-2018
Citation: 23 CCR 16 2712(b)(1)(G) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)(1)(G)
Violation Description: Failure to comply with one or more of the following overfill prevention equipment requirements: Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling. Install/retrofit overfill prevention equipment that does not use flow restrictors on vent piping to meet overfill prevention equipment requirements when the overfill prevention equipment is installed, repaired, or replaced on and after October 1,- 2018. For USTs installed before October 1, 2018, perform an inspection by October 13, 2018 and every 36 months thereafter. For USTs installed on and after October- 1,- 2018, perform an inspection at installation and every 36 months thereafter. Inspected within 30 days after a repair to the overfill prevention equipment. Inspected using an applicable manufacturer guidelines, industry codes, engineering standards, or a method approved by a professional engineer. Inspected by a certified UST service technician. Maintain records of overfill prevention equipment inspection for 36 months.
Violation Notes: Returned to compliance on 03/22/2019.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

Site ID: 118548
Site Name: G&M Oil Co. #80
Violation Date: 12-16-2015
Citation: 23 CCR 16 2636(f)(1) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(1)
Violation Description: Failure of the double wall pressurized piping in the turbine sump to be continuously monitored with a system that activates an audible and visual alarm or restricts or stops flow at dispenser when a leak is detected.
Violation Notes: Returned to compliance on 12/16/2015.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-06-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS

G&M OIL CO. #80 (Continued) **S123499718**

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-06-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Riverside County Department of Env Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-06-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Riverside County Department of Env Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-06-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Annual CMD
Eval Division:	Riverside County Department of Env Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	01-08-2019
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	While on site Bill Coulter made adjustments to fill tube shut-off valves to ensure they activate when tanks are filled to 95% full, fulfilling overfill prevention requirements.
Eval Division:	Riverside County Department of Env Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	01-08-2019
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Reviewing overfill prevention inspection (Failed). NOV issued.
Eval Division:	Riverside County Department of Env Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	02-27-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Follow up inspection
Eval Division:	Riverside County Department of Env Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Other/Unknown

G&M OIL CO. #80 (Continued) **S123499718**

Eval Date:	09-15-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	SB989 test inspection
Eval Division:	Riverside County Department of Env Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-18-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Sb989
Eval Division:	Riverside County Department of Env Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-09-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Overfill prevention tested on 10/17/18.
Eval Division:	Riverside County Department of Env Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-12-2019
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Riverside County Department of Env Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	11-29-2018
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Riverside County Department of Env Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-15-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Riverside County Department of Env Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-16-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency

G&M OIL CO. #80 (Continued) **S123499718**

Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-20-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-20-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-20-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS

Enforcement Action:
Site ID: 118548
Site Name: G&M Oil Co. #80
Site Address: 499 SANDALWOOD DR
Site City: CALIMESA
Site Zip: 92320
Enf Action Date: 01-06-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Riverside County Department of Env Health
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 118548
Site Name: G&M Oil Co. #80
Site Address: 499 SANDALWOOD DR
Site City: CALIMESA
Site Zip: 92320
Enf Action Date: 12-16-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Riverside County Department of Env Health
Enf Action Program: UST

G&M OIL CO. #80 (Continued) **S123499718**

Enf Action Source: CERS

Coordinates:
Site ID: 118548
Facility Name: G&M Oil Co. #80
Env Int Type Code: HWG
Program ID: 10138297
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.992910
Longitude: -117.056460

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Riverside Cnty Env Health
Entity Title: Not reported
Affiliation Address: 4065 County Circle Drive, Room 104
Affiliation City: Riverside
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92503
Affiliation Phone: (951) 358-5055

Affiliation Type Desc: Property Owner
Entity Name: CAMDEN HOLDINGS LLC
Entity Title: Not reported
Affiliation Address: 9454 WILSHIRE BLVD., SUITE 650
Affiliation City: BEVERLY HILLS
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 90212
Affiliation Phone: (310) 550-1099

Affiliation Type Desc: Operator
Entity Name: G&M OIL CO., LLC
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (714) 375-4700

Affiliation Type Desc: UST Tank Operator
Entity Name: G&M OIL CO LLC
Entity Title: Not reported
Affiliation Address: 16868 A LANE
Affiliation City: HUNTINGTON BEACH
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92647
Affiliation Phone: (714) 375-4700

Affiliation Type Desc: Document Preparer
Entity Name: HORTENSIA NAVARRO
Entity Title: Not reported

G&M OIL CO. #80 (Continued) **S123499718**

Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	16868 A LANE
Affiliation City:	HUNTINGTON BEACH
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92647
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	G&M OIL CO., LLC
Entity Title:	Not reported
Affiliation Address:	16868 A LANE
Affiliation City:	HUNTINGTON BEACH
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92647
Affiliation Phone:	(714) 375-4700
Affiliation Type Desc:	UST Permit Applicant
Entity Name:	SOLEDAD GERMAN
Entity Title:	COMPLIANCE ADMINISTRATOR
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 475-6375
Affiliation Type Desc:	UST Property Owner Name
Entity Name:	CAMDEN HOLDINGS LLC
Entity Title:	Not reported
Affiliation Address:	9454 WILSHIRE BLVD., SUITE 650
Affiliation City:	BEVERLY HILLS
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90212
Affiliation Phone:	(310) 550-1099
Affiliation Type Desc:	UST Tank Owner
Entity Name:	G&M OIL CO LLC
Entity Title:	Not reported
Affiliation Address:	16868 A LANE
Affiliation City:	HUNTINGTON BEACH
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92647
Affiliation Phone:	(714) 375-4700

G&M OIL CO. #80 (Continued) **S123499718**

Affiliation Type Desc:	Environmental Contact
Entity Name:	MICHAEL GRAY
Entity Title:	Not reported
Affiliation Address:	16868 A LANE
Affiliation City:	HUNTINGTON BEACH
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92647
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	SOLEDAD GERMAN
Entity Title:	COMPLIANCE ADMINISTRATOR
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Parent Corporation
Entity Name:	G&M OIL CO.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

E29
West
1/8-1/4
0.176 mi.
928 ft.

VILLA CALIMESA MOBILE HOME PARK LLC **RCRA-SQG** **1026171404**
1134 VILLA CALIMESA LANE **CAP000306696**
CALIMESA, CA 92320

Site 1 of 4 in cluster E

Relative:
Higher

Actual:
2374 ft.

RCRA-SQG:

Date Form Received by Agency:	2020-03-31 00:00:00.0
Handler Name:	VILLA CALIMESA MOBILE HOME PARK LLC
Handler Address:	1134 VILLA CALIMESA LANE
Handler City,State,Zip:	CALIMESA, CA 92320
EPA ID:	CAP000306696
Contact Name:	JERRY CONWAY JR.
Contact Address:	PO BOX
Contact City,State,Zip:	ALPINE, CA 91903
Contact Telephone:	619-895-0610
Contact Fax:	Not reported
Contact Email:	5CONWAYJR5@GMAIL.COM
Contact Title:	MEMBER
EPA Region:	09
Land Type:	Private
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported

VILLA CALIMESA MOBILE HOME PARK LLC (Continued) **1026171404**

State District:	Not reported
Mailing Address:	PO BOX
Mailing City,State,Zip:	ALPINE, CA 91903
Owner Name:	VILLA CALIMESA MOBILE HOME PARK LLC
Owner Type:	Private
Operator Name:	JERRY CONWAY JR.
Operator Type:	Private
Short-Term Generator Activity:	Yes
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2020-04-01 16:18:44.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No

VILLA CALIMESA MOBILE HOME PARK LLC (Continued) **1026171404**

Importer of Spent Lead Acid Batteries: No
Exporter of Spent Lead Acid Batteries: No
Recycler Activity Without Storage: Yes
Manifest Broker: No
Sub-Part P Indicator: No

Hazardous Waste Summary:
Waste Code: D008
Waste Description: LEAD

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: VILLA CALIMESA MOBILE HOME PARK LLC
Legal Status: Private
Date Became Current: 2020-03-27 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 760 PO BOX
Owner/Operator City,State,Zip: ALPINE, CA 91903
Owner/Operator Telephone: 619-445-4845
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: GLACIERINV@GMAIL.COM

Owner/Operator Indicator: Operator
Owner/Operator Name: JERRY CONWAY JR.
Legal Status: Private
Date Became Current: 2020-03-27 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 760 PO BOX
Owner/Operator City,State,Zip: ALPINE, CA 91903
Owner/Operator Telephone: 619-895-0610
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: 5CONWAYJR5@GMAIL.COM

Historic Generators:
Receive Date: 2020-03-31 00:00:00.0
Handler Name: VILLA CALIMESA MOBILE HOME PARK LLC
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Yes
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 531190
NAICS Description: LESSORS OF OTHER REAL ESTATE PROPERTY

VILLA CALIMESA MOBILE HOME PARK LLC (Continued) **1026171404**

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

E30
West
1/8-1/4
0.176 mi.
928 ft.

VILLA CALIMESA MOBILE HOME PARK, LLC **RCRA NonGen / NLR** **1026050054**
1134 VILLA CALIMESA LANE **CAC003056870**
CALIMESA, CA 92320

Site 2 of 4 in cluster E

Relative:
Higher

Actual:
2374 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:	2020-02-20 00:00:00.0
Handler Name:	VILLA CALIMESA MOBILE HOME PARK, LLC
Handler Address:	1134 VILLA CALIMESA LANE
Handler City,State,Zip:	CALIMESA, CA 92320
EPA ID:	CAC003056870
Contact Name:	JERRY CONWAY
Contact Address:	PO BOX 760
Contact City,State,Zip:	ALPINE, CA 91903
Contact Telephone:	619-895-0610
Contact Fax:	Not reported
Contact Email:	JORDAN@EFRENVIRO.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	PO BOX 760
Mailing City,State,Zip:	ALPINE, CA 91903
Owner Name:	VILLA CALIMESA MOBILE HOME PARK LLC
Owner Type:	Other
Operator Name:	JERRY CONWAY
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported

VILLA CALIMESA MOBILE HOME PARK, LLC (Continued) **1026050054**

Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2020-03-06 18:11:02.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	JERRY CONWAY
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 760
Owner/Operator City,State,Zip:	ALPINE, CA 91903
Owner/Operator Telephone:	619-895-0610
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	VILLA CALIMESA MOBILE HOME PARK LLC
Legal Status:	Other

VILLA CALIMESA MOBILE HOME PARK, LLC (Continued) **1026050054**

Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: PO BOX 760
Owner/Operator City,State,Zip: ALPINE, CA 91903
Owner/Operator Telephone: 619-445-4845
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2020-02-20 00:00:00.0
Handler Name: VILLA CALIMESA MOBILE HOME PARK, LLC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

E31
West
1/8-1/4
0.176 mi.
928 ft.

VILLA CALIMESA MOBILE HOME PARK LLC **RCRA NonGen / NLR** **1026161562**
1134 VILLA CALIMESA LN **CAC003061543**
CALIMESA, CA 92320

Site 3 of 4 in cluster E

Relative:
Higher

Actual:
2374 ft.

RCRA NonGen / NLR:
Date Form Received by Agency: 2020-03-27 00:00:00.0
Handler Name: VILLA CALIMESA MOBILE HOME PARK LLC
Handler Address: 1134 VILLA CALIMESA LN
Handler City,State,Zip: CALIMESA, CA 92320
EPA ID: CAC003061543
Contact Name: JERRY CONWAY
Contact Address: PO BOX 760
Contact City,State,Zip: ALPINE, CA 91903
Contact Telephone: 619-895-0610
Contact Fax: Not reported
Contact Email: GLACIERINV@GMAIL.COM
Contact Title: Not reported
EPA Region: 09
Land Type: Not reported
Federal Waste Generator Description: Not a generator, verified

VILLA CALIMESA MOBILE HOME PARK LLC (Continued) **1026161562**

Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	PO BOX 760
Mailing City,State,Zip:	ALPINE, CA 91903
Owner Name:	VILLA CALIMESA MOBILE HOME PARK LLC
Owner Type:	Other
Operator Name:	JERRY CONWAY
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No

VILLA CALIMESA MOBILE HOME PARK LLC (Continued) **1026161562**

Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2020-04-08 18:59:17.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	JERRY CONWAY
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 760
Owner/Operator City,State,Zip:	ALPINE, CA 91903
Owner/Operator Telephone:	619-895-0610
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	VILLA CALIMESA MOBILE HOME PARK LLC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 760
Owner/Operator City,State,Zip:	ALPINE, CA 91903
Owner/Operator Telephone:	619-445-4845
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2020-03-27 00:00:00.0
Handler Name:	VILLA CALIMESA MOBILE HOME PARK LLC
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	53119
NAICS Description:	LESSORS OF OTHER REAL ESTATE PROPERTY

VILLA CALIMESA MOBILE HOME PARK LLC (Continued) **1026161562**

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

E32 **VILLA CALIMESA MOBILE HOME PARK, LLC** **RCRA NonGen / NLR** **1025862416**
West **1134 VILLA CALIMESA LN** **CAC003043122**
1/8-1/4 **CALIMESA, CA 92320**
0.176 mi.
928 ft. **Site 4 of 4 in cluster E**

Relative: **Higher**
Actual: **2374 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	2019-11-13 00:00:00.0
Handler Name:	VILLA CALIMESA MOBILE HOME PARK, LLC
Handler Address:	1134 VILLA CALIMESA LN
Handler City,State,Zip:	CALIMESA, CA 92320
EPA ID:	CAC003043122
Contact Name:	JERRY CONWAY
Contact Address:	PO BOX 760
Contact City,State,Zip:	ALPINE, CA 91903
Contact Telephone:	619-895-0610
Contact Fax:	Not reported
Contact Email:	CUSTOMERSERVICE@EFRENVIRO.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	PO BOX 760
Mailing City,State,Zip:	ALPINE, CA 91903
Owner Name:	VILLA CALIMESA MOBILE HOME PARK, LL
Owner Type:	Other
Operator Name:	JERRY CONWAY
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported

VILLA CALIMESA MOBILE HOME PARK, LLC (Continued) **1025862416**

Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2019-11-22 19:28:46.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	VILLA CALIMESA MOBILE HOME PARK, LL
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 760
Owner/Operator City,State,Zip:	ALPINE, CA 91903
Owner/Operator Telephone:	619-445-4845
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	JERRY CONWAY
Legal Status:	Other

VILLA CALIMESA MOBILE HOME PARK, LLC (Continued) **1025862416**

Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 760
Owner/Operator City,State,Zip:	ALPINE, CA 91903
Owner/Operator Telephone:	619-895-0610
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2019-11-13 00:00:00.0
Handler Name:	VILLA CALIMESA MOBILE HOME PARK, LLC
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	56299
NAICS Description:	ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

33
NNE
1/8-1/4
0.209 mi.
1106 ft.

CALIMESA DRIVE-IN DAIRY **HIST UST** **U001574613**
1045 CALIMESA BLVD **N/A**
CALIMESA, CA 92320

Relative:
Higher

Actual:
2406 ft.

HIST UST:

Name:	CALIMESA DRIVE-IN DAIRY
Address:	1045 CALIMESA BLVD
City,State,Zip:	CALIMESA, CA 92320
File Number:	0002D90A
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002D90A.pdf
Region:	STATE
Facility ID:	00000042533
Facility Type:	Other
Other Type:	RETAIL DAIRY
Contact Name:	NORMA ARCHER OR MARY SCOTT
Telephone:	7147957757
Owner Name:	ABBOTT, ARCHER, SCOTT & TAYLOR
Owner Address:	1045 CALIMESA BLVD
Owner City,St,Zip:	CALIMESA, CA 92320
Total Tanks:	0000

CALIMESA DRIVE-IN DAIRY (Continued) **U001574613**

Tank Num:	001
Container Num:	#1
Year Installed:	Not reported
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	None

Tank Num:	002
Container Num:	#2
Year Installed:	Not reported
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	None

Click here for Geo Tracker PDF:

F34 **UNOCAL #5636** **LUST** **U001574620**
NNW **665 W COUNTY LINE ROAD** **HIST UST** **N/A**
1/4-1/2 **CALIMESA, CA 92320** **Cortese**
0.474 mi. **CERS**
2505 ft. **Site 1 of 2 in cluster F**

Relative:
Higher

Actual:
2382 ft.

RIVERSIDE CO. LUST:

Name:	UNOCAL UNION 76
Address:	665 W COUNTY LINE RD
City,State,Zip:	CALIMESA, CA
Region:	RIVERSIDE
Facility ID:	94537
Employee:	Brown
Site Closed:	Yes
Case Type:	Undefined
Facility Status:	closed/action completed
Casetype Decode:	Undefined
Fstatus Decode:	Closed/Action completed

LUST:

Name:	UNOCAL #5636
Address:	665 W COUNTY LINE ROAD
City,State,Zip:	CALIMESA, CA 92320
Lead Agency:	RIVERSIDE COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0606500389
Global Id:	T0606500389
Latitude:	34.0037866139785
Longitude:	-117.061831084717
Status:	Completed - Case Closed
Status Date:	01/26/1995
Case Worker:	RIV
RB Case Number:	083302518T
Local Agency:	RIVERSIDE COUNTY LOP
File Location:	Local Agency Warehouse
Local Case Number:	94537
Potential Media Affect:	Soil

UNOCAL #5636 (Continued) **U001574620**

Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0606500389
Contact Type: Local Agency Caseworker
Contact Name: Riverside County LOP
Organization Name: RIVERSIDE COUNTY LOP
Address: 3880 LEMON ST SUITE 200
City: RIVERSIDE
Email: Not reported
Phone Number: 9519558980

LUST:
Global Id: T0606500389
Action Type: ENFORCEMENT
Date: 01/25/1995
Action: Closure/No Further Action Letter - #Riv Co Closure

Global Id: T0606500389
Action Type: Other
Date: 06/28/1994
Action: Leak Reported

Global Id: T0606500389
Action Type: ENFORCEMENT
Date: 01/26/1995
Action: Closure/No Further Action Letter

Global Id: T0606500389
Action Type: Other
Date: 06/28/1994
Action: Leak Discovery

Global Id: T0606500389
Action Type: Other
Date: 07/08/1994
Action: Leak Stopped

LUST:
Global Id: T0606500389
Status: Open - Case Begin Date
Status Date: 06/28/1994

Global Id: T0606500389
Status: Open - Site Assessment
Status Date: 06/28/1994

Global Id: T0606500389
Status: Completed - Case Closed
Status Date: 01/26/1995

HIST UST:
Name: STATION #5636
Address: 665 W COUNTY LINE RD

UNOCAL #5636 (Continued) **U001574620**

City,State,Zip:	CALIMESA, CA 92320
File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000043748
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	DAVID L. YOUNG
Telephone:	7147955579
Owner Name:	UNION OIL COMPANY OF CALIFORNI
Owner Address:	1450 FRAZEE ROAD
Owner City,St,Zip:	SAN DIEGO, CA 92108
Total Tanks:	0001
Tank Num:	001
Container Num:	5636-00
Year Installed:	1966
Tank Capacity:	00000000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	6
Leak Detection:	Visual

CORTESE:

Name:	UNOCAL #5636
Address:	665 W COUNTY LINE ROAD
City,State,Zip:	CALIMESA, CA 92320
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0606500389
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

CERS:

Name:	BAKER'S DRIVE THRU #153
Address:	665 W COUNTY LINE RD
City,State,Zip:	CALIMESA, CA 92320
Site ID:	97154
CERS ID:	10317610
CERS Description:	Chemical Storage Facilities

UNOCAL #5636 (Continued) **U001574620**

Violations:

Site ID:	97154
Site Name:	Baker's Drive Thru #153
Violation Date:	12-15-2015
Citation:	HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description:	Business Plan Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 01/21/2016. HMBP onsite
Violation Division:	Riverside County Department of Env Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	97154
Site Name:	Baker's Drive Thru #153
Violation Date:	12-26-2018
Citation:	HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 01/23/2019. OBSERVATION: The chemical inventory description page submitted for Carbon Dioxide contained incorrect information. The inventory page needs to utilize the new Federal Hazard Categories. CORRECTIVE ACTION: Owner/operator shall update the chemical inventory page for Carbon Dioxide and submit to the statewide information management system at http://cers.calepa.ca.gov. Missing information may be found by looking at Section 2 [Hazard Identification] of the associated chemical safety data sheet.
Violation Division:	Riverside County Department of Env Health
Violation Program:	HMRRP
Violation Source:	CERS

Evaluation:

Eval General Type:	Other/Unknown
Eval Date:	01-21-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Riverside County Department of Env Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-15-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Riverside County Department of Env Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-26-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency

UNOCAL #5636 (Continued) **U001574620**

Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS

Enforcement Action:
Site ID: 97154
Site Name: Baker's Drive Thru #153
Site Address: 665 W COUNTY LINE RD
Site City: CALIMESA
Site Zip: 92320
Enf Action Date: 12-15-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Riverside County Department of Env Health
Enf Action Program: HMRRP
Enf Action Source: CERS

Coordinates:
Site ID: 97154
Facility Name: Baker's Drive Thru #153
Env Int Type Code: HMBP
Program ID: 10317610
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 34.003620
Longitude: -117.063630

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: Conrad Ulloa III
Entity Title: Not reported
Affiliation Address: 4210 Riverwalk Parkway
Affiliation City: Riverside
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92505
Affiliation Phone: Not reported

Affiliation Type Desc: CUPA District
Entity Name: Riverside Cnty Env Health
Entity Title: Not reported
Affiliation Address: 4065 County Circle Drive, Room 104
Affiliation City: Riverside
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92503
Affiliation Phone: (951) 358-5055

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 4210 Riverwalk Parkway
Affiliation City: Riverside
Affiliation State: CA

UNOCAL #5636 (Continued) **U001574620**

Affiliation Country:	Not reported
Affiliation Zip:	92505
Affiliation Phone:	Not reported
Affiliation Type Desc:	Document Preparer
Entity Name:	Conrad Ulloa III
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Conrad Ulloa III
Entity Title:	Field Risk Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Baker’s Drive Thru
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(909) 888-1342
Affiliation Type Desc:	Parent Corporation
Entity Name:	Baker’s Burgers, Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Baker’s Drive Thru
Entity Title:	Not reported
Affiliation Address:	4210 Riverwalk Parkway
Affiliation City:	Riverside
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92505
Affiliation Phone:	(909) 884-7241
Name:	UNOCAL #5636
Address:	665 W COUNTY LINE ROAD

UNOCAL #5636 (Continued) **U001574620**

City,State,Zip:	CALIMESA, CA 92320
Site ID:	251809
CERS ID:	T0606500389
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	Riverside County LOP - RIVERSIDE COUNTY LOP
Entity Title:	Not reported
Affiliation Address:	3880 LEMON ST SUITE 200
Affiliation City:	RIVERSIDE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	9519558980

35
North
1/4-1/2
0.478 mi.
2522 ft.

CALIMESA SUNSHINE S.S.
905 CALIMESA BLVD
CALIMESA, CA 92320

LUST **S102426146**
SWEEPS UST **N/A**
Cortese
HIST CORTESE
CERS

Relative:
Higher

Actual:
2395 ft.

LUST REG 8:

Name:	CALIMESA SUNSHINE S.S.
Address:	905 CALIMESA BLVD
City:	CALIMESA
Region:	8
County:	Riverside
Regional Board:	Santa Ana Region
Facility Status:	Remedial action (cleanup) Underway
Case Number:	083302496T
Local Case Num:	94318
Case Type:	Soil only
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	EDVE
Cross Street:	Not reported
Enf Type:	Not reported
Funding:	Not reported
How Discovered:	OM
How Stopped:	Not reported
Leak Cause:	UNK
Leak Source:	UNK
Global ID:	T0606500379
How Stopped Date:	Not reported
Enter Date:	8/29/1994
Date Confirmation of Leak Began:	12/22/1993
Date Preliminary Assessment Began:	12/22/1993
Discover Date:	12/22/1993
Enforcement Date:	Not reported
Close Date:	Not reported
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	6/2/1994
Date Remediation Plan Submitted:	2/1/1996
Date Remedial Action Underway:	9/21/1999
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	8/29/1994

CALIMESA SUNSHINE S.S. (Continued) **S102426146**

GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	34.00376
Longitude:	-117.0621844
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	NOM
Staff Initials:	UNK
Lead Agency:	Regional Board
Local Agency:	33000L
Hydr Basin #:	UPPER SANTA ANA VALL
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: THE SITE HAS 5 USTS: ONE 10,000 GALLON DIESEL, ONE 5,000 GALLON SUPER UNLEADED GASOLINE, ONE 3,000 GALLON AND ONE 5,000 GALLON REGULAR GASOLINE, AND ONE 300 GALLON WASTE OIL TANK.

RIVERSIDE CO. LUST:

Name:	CALIMESA GAS STATION
Address:	905 CALIMESA BLVD
City,State,Zip:	CALIMESA, CA
Region:	RIVERSIDE
Facility ID:	94318
Employee:	Shurlow-LOP
Site Closed:	Referred to Water Board
Case Type:	Soil only
Facility Status:	0
Casetype Decode:	Soil only is impacted
Fstatus Decode:	Not reported

LUST:

Name:	CALIMESA GAS STATION
Address:	905 CALIMESA BLVD
City,State,Zip:	CALIMESA, CA 92320
Lead Agency:	SANTA ANA RWQCB (REGION 8)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0606500379
Global Id:	T0606500379
Latitude:	34.00371
Longitude:	-117.061739
Status:	Completed - Case Closed
Status Date:	11/09/2004
Case Worker:	Not reported
RB Case Number:	083302496T
Local Agency:	RIVERSIDE COUNTY LOP

CALIMESA SUNSHINE S.S. (Continued) **S102426146**

File Location: Not reported
Local Case Number: 94318
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0606500379
Contact Type: Local Agency Caseworker
Contact Name: Riverside County LOP
Organization Name: RIVERSIDE COUNTY LOP
Address: 3880 LEMON ST SUITE 200
City: RIVERSIDE
Email: Not reported
Phone Number: 9519558980

LUST:
Global Id: T0606500379
Action Type: Other
Date: 06/02/1994
Action: Leak Reported

Global Id: T0606500379
Action Type: ENFORCEMENT
Date: 11/08/2004
Action: File review - #RCDEH upload site file 1/14/2015

Global Id: T0606500379
Action Type: ENFORCEMENT
Date: 05/15/1997
Action: Petition Submitted for Review

Global Id: T0606500379
Action Type: ENFORCEMENT
Date: 11/09/2004
Action: Closure/No Further Action Letter

Global Id: T0606500379
Action Type: Other
Date: 12/22/1993
Action: Leak Discovery

LUST:
Global Id: T0606500379
Status: Open - Case Begin Date
Status Date: 12/22/1993

Global Id: T0606500379
Status: Open - Site Assessment
Status Date: 12/22/1993

Global Id: T0606500379
Status: Open - Site Assessment
Status Date: 06/02/1994

Global Id: T0606500379
Status: Open - Remediation

CALIMESA SUNSHINE S.S. (Continued) **S102426146**

Status Date: 02/01/1996

Global Id: T0606500379
Status: Open - Remediation
Status Date: 09/21/1999

Global Id: T0606500379
Status: Completed - Case Closed
Status Date: 11/09/2004

SWEEPS UST:
Name: SUNSHINE INDUSTRIES OF AMERICA
Address: 905 CALIMESA BLVD
City: CALIMESA
Status: Active
Comp Number: 1976
Number: 3
Board Of Equalization: 44-010457
Referral Date: 07-09-93
Action Date: 07-09-93
Created Date: 07-09-93
Owner Tank Id: Not reported
SWRCB Tank Id: Not reported
Tank Status: Not reported
Capacity: Not reported
Active Date: Not reported
Tank Use: Not reported
STG: Not reported
Content: Not reported
Number Of Tanks: Not reported

CORTESE:
Name: CALIMESA GAS STATION
Address: 905 CALIMESA BLVD
City,State,Zip: CALIMESA, CA 92320
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0606500379
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported

CALIMESA SUNSHINE S.S. (Continued) **S102426146**

File Name: Active Open

HIST CORTESE:
edr_fname: CALIMESA SUNSHINE S.S.
edr_fadd1: 905
City,State,Zip: CALIMESA, CA 92320
Region: CORTESE
Facility County Code: 33
Reg By: LTNKA
Reg Id: 083302496T

CERS:
Name: CALIMESA GAS STATION
Address: 905 CALIMESA BLVD
City,State,Zip: CALIMESA, CA 92320
Site ID: 220432
CERS ID: T0606500379
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: Riverside County LOP - RIVERSIDE COUNTY LOP
Entity Title: Not reported
Affiliation Address: 3880 LEMON ST SUITE 200
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9519558980

F36 **UNOCAL #5636** **LUST** **S103943658**
NNW **665 COUNTY LINE** **HIST CORTESE** **N/A**
1/4-1/2 **CALIMESA, CA 92320**
0.491 mi.
2595 ft. **Site 2 of 2 in cluster F**

Relative:
Higher

Actual:
2383 ft.

LUST REG 8:
Name: UNOCAL #5636
Address: 665 COUNTY LINE ROAD
City: CALIMESA
Region: 8
County: Riverside
Regional Board: Santa Ana Region
Facility Status: Case Closed
Case Number: 083302518T
Local Case Num: Not reported
Case Type: Soil only
Substance: Gasoline
Qty Leaked: Not reported
Abate Method: Excavate and Dispose - remove contaminated soil and dispose in approved site
Cross Street: CALIMESA
Enf Type: CLOS
Funding: Not reported
How Discovered: Tank Closure
How Stopped: Not reported

UNOCAL #5636 (Continued) **S103943658**

Leak Cause:	UNK
Leak Source:	Piping
Global ID:	T0606500389
How Stopped Date:	6/28/1994
Enter Date:	8/31/1994
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	6/28/1994
Discover Date:	6/28/1994
Enforcement Date:	Not reported
Close Date:	1/26/1995
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	8/31/1994
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	34.004724
Longitude:	-117.053763
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	NOM
Staff Initials:	UNK
Lead Agency:	Local Agency
Local Agency:	33000L
Hydr Basin #:	UPPER SANTA ANA VALL
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

HIST CORTESE:

edr_fname:	UNOCAL #5636
edr_fadd1:	665 COUNTY LINE
City,State,Zip:	CALIMESA, CA 92320
Region:	CORTESE
Facility County Code:	33
Reg By:	LTNKA
Reg Id:	083302518T

37
WNW
1/2-1
0.517 mi.
2729 ft.

JUNIOR/ SENIOR HIGH SCHOOL
AVENUE L
CALIMESA, CA 92320

ENVIROSTOR
SCH

S118756815
N/A

Relative:
Lower

Actual:
2340 ft.

ENVIROSTOR:

Name:	JUNIOR/ SENIOR HIGH SCHOOL
Address:	AVENUE L
City,State,Zip:	CALIMESA, CA 92320
Facility ID:	36650004
Status:	No Action Required
Status Date:	05/01/2002
Site Code:	404345
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	40
NPL:	NO
Regulatory Agencies:	DTSC
Lead Agency:	DTSC
Program Manager:	Angela Garcia
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	42
Senate:	23
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	33.99799
Longitude:	-117.072
APN:	NONE SPECIFIED
Past Use:	NONE
Potential COC:	NONE SPECIFIED No Contaminants found
Confirmed COC:	NONE SPECIFIED
Potential Description:	NMA
Alias Name:	JUNIOR/SENIOR HIGH SCHOOL
Alias Type:	Alternate Name
Alias Name:	YUCAIPA-CALIMESA JT. UNIFIED SCH. DIST.
Alias Type:	Alternate Name
Alias Name:	YUCAIPA-CALIMESA JUSD-PRPSD JR/SENIOR
Alias Type:	Alternate Name
Alias Name:	404345
Alias Type:	Project Code (Site Code)
Alias Name:	36650004
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	05/01/2002
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	06/25/2002
Comments:	Not reported

JUNIOR/ SENIOR HIGH SCHOOL (Continued) **S118756815**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	04/19/2002
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	05/25/2004
Comments:	The proposed special education classrooms are to be located within the site boundaries addressed by the previous Phase I. File reviewed 04/08/04; site visit conducted by DTSC on 04/14/04. No additional Phase I required.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	02/15/2013
Comments:	Not reported

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

SCH:

Name:	JUNIOR/ SENIOR HIGH SCHOOL
Address:	AVENUE L
City,State,Zip:	CALIMESA, CA 92320
Facility ID:	36650004
Site Type:	School Investigation
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	40
National Priorities List:	NO
Cleanup Oversight Agencies:	DTSC
Lead Agency:	DTSC
Lead Agency Description:	* DTSC
Project Manager:	Angela Garcia
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	404345
Assembly:	42
Senate:	23
Special Program Status:	Not reported
Status:	No Action Required
Status Date:	05/01/2002
Restricted Use:	NO
Funding:	School District
Latitude:	33.99799

JUNIOR/ SENIOR HIGH SCHOOL (Continued) **S118756815**

Longitude:	-117.072
APN:	NONE SPECIFIED
Past Use:	NONE
Potential COC:	NONE SPECIFIED, No Contaminants found
Confirmed COC:	NONE SPECIFIED
Potential Description:	NMA
Alias Name:	JUNIOR/SENIOR HIGH SCHOOL
Alias Type:	Alternate Name
Alias Name:	YUCAIPA-CALIMESA JT. UNIFIED SCH. DIST.
Alias Type:	Alternate Name
Alias Name:	YUCAIPA-CALIMESA JUSD-PRPSD JR/SENIOR
Alias Type:	Alternate Name
Alias Name:	404345
Alias Type:	Project Code (Site Code)
Alias Name:	36650004
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	05/01/2002
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	06/25/2002
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	04/19/2002
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	05/25/2004
Comments:	The proposed special education classrooms are to be located within the site boundaries addressed by the previous Phase I. File reviewed 04/08/04; site visit conducted by DTSC on 04/14/04. No additional Phase I required.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	02/15/2013
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported

JUNIOR/ SENIOR HIGH SCHOOL (Continued) **S118756815**

Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Count: 2 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
CALIMESA	S121620601	APN 411 210 024 006 7TH STREET	7TH ST W INTERSTATE 10	92320	CIWQS
REDLANDS	S108985931	REDLANDS AIRPORT	N/A		CPS-SLIC

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 20

Source: EPA
Telephone: N/A
Last EDR Contact: 01/14/2021
Next Scheduled EDR Contact: 04/12/2021
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 10
Telephone 206-553-8665

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 20

Source: EPA
Telephone: N/A
Last EDR Contact: 01/14/2021
Next Scheduled EDR Contact: 04/12/2021
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 20

Source: EPA
Telephone: N/A
Last EDR Contact: 01/14/2021
Next Scheduled EDR Contact: 04/12/2021
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 04/03/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 12/23/2020
Next Scheduled EDR Contact: 04/12/2021
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 20

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 01/14/2021
Next Scheduled EDR Contact: 04/26/2021
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 20

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 01/14/2021
Next Scheduled EDR Contact: 04/26/2021
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/14/2020
Date Data Arrived at EDR: 12/17/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 5

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/17/2020
Next Scheduled EDR Contact: 04/05/2021
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 12/14/2020
Date Data Arrived at EDR: 12/17/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 5

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/17/2020
Next Scheduled EDR Contact: 04/05/2021
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/14/2020
Date Data Arrived at EDR: 12/17/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 5

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/17/2020
Next Scheduled EDR Contact: 04/05/2021
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 12/14/2020
Date Data Arrived at EDR: 12/17/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 5

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/17/2020
Next Scheduled EDR Contact: 04/05/2021
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/14/2020
Date Data Arrived at EDR: 12/17/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 5

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/17/2020
Next Scheduled EDR Contact: 04/05/2021
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 08/06/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 11/11/2020
Number of Days to Update: 82

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 11/05/2020
Next Scheduled EDR Contact: 02/22/2021
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/18/2020
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/05/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/18/2020
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/05/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/14/2020
Date Data Arrived at EDR: 12/15/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 7

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 12/15/2020
Next Scheduled EDR Contact: 04/05/2021
Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 10/26/2020
Date Data Arrived at EDR: 10/26/2020
Date Made Active in Reports: 01/13/2021
Number of Days to Update: 79

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/26/2020
Next Scheduled EDR Contact: 02/08/2021
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 10/26/2020
Date Data Arrived at EDR: 10/26/2020
Date Made Active in Reports: 01/13/2021
Number of Days to Update: 79

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/26/2020
Next Scheduled EDR Contact: 02/08/2021
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 11/09/2020
Date Data Arrived at EDR: 11/10/2020
Date Made Active in Reports: 01/14/2021
Number of Days to Update: 65

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 11/10/2020
Next Scheduled EDR Contact: 02/22/2021
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List
Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks
California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)
Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Quarterly

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/14/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/29/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/14/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 04/14/2020
Date Data Arrived at EDR: 05/26/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 78
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/08/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/14/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/15/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/08/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35
Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36
Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11
Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17
Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: No Update Planned

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 07/21/2020
Date Data Arrived at EDR: 09/03/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 83
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/04/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Varies

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases
UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 09/03/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 12/03/2020
Number of Days to Update: 86
Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 12/08/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83
Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69
Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 12/09/2020
Next Scheduled EDR Contact: 03/29/2021
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/03/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/08/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84
Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/14/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 12/15/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/29/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/14/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 85

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 04/14/2020
Date Data Arrived at EDR: 05/26/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 78

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/08/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/14/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 12/15/2020
Next Scheduled EDR Contact: 04/05/2021
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties
Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 10/26/2020
Date Data Arrived at EDR: 10/26/2020
Date Made Active in Reports: 01/13/2021
Number of Days to Update: 79

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/26/2020
Next Scheduled EDR Contact: 02/08/2021
Data Release Frequency: Quarterly

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 09/21/2020
Date Data Arrived at EDR: 09/22/2020
Date Made Active in Reports: 12/11/2020
Number of Days to Update: 80

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 12/17/2020
Next Scheduled EDR Contact: 04/05/2021
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 09/14/2020
Date Data Arrived at EDR: 09/15/2020
Date Made Active in Reports: 12/10/2020
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 12/11/2020
Next Scheduled EDR Contact: 03/29/2021
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database
Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 01/25/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 12/08/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 05/28/2020
Date Data Arrived at EDR: 05/29/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 75

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 11/05/2020
Next Scheduled EDR Contact: 02/22/2021
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 01/25/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Varies

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 10/30/2020
Next Scheduled EDR Contact: 02/08/2021
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 03/18/2020
Date Data Arrived at EDR: 03/19/2020
Date Made Active in Reports: 06/09/2020
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/16/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 10/26/2020
Date Data Arrived at EDR: 10/26/2020
Date Made Active in Reports: 01/13/2021
Number of Days to Update: 79

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/26/2020
Next Scheduled EDR Contact: 02/08/2021
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 06/30/2019
Date Data Arrived at EDR: 05/28/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Varies

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 10/19/2020
Date Data Arrived at EDR: 10/19/2020
Date Made Active in Reports: 01/07/2021
Number of Days to Update: 80

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 01/20/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 03/18/2020
Date Data Arrived at EDR: 03/19/2020
Date Made Active in Reports: 06/09/2020
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/16/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: Quarterly

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 12/01/2020
Number of Days to Update: 84

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/08/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 05/20/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/06/2020
Number of Days to Update: 78

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 11/16/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing
Aboveground storage tank sites

Date of Government Version: 08/03/2020
Date Data Arrived at EDR: 08/05/2020
Date Made Active in Reports: 10/22/2020
Number of Days to Update: 78

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 10/28/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Varies

CERS TANKS: California Environmental Reporting System (CERS) Tanks
List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 10/19/2020
Date Data Arrived at EDR: 10/19/2020
Date Made Active in Reports: 01/07/2021
Number of Days to Update: 80

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 01/20/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Quarterly

CA FID UST: Facility Inventory Database
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 08/26/2020
Date Data Arrived at EDR: 08/28/2020
Date Made Active in Reports: 11/17/2020
Number of Days to Update: 81

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/23/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 20

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 01/14/2021
Next Scheduled EDR Contact: 04/12/2021
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 08/31/2020
Date Data Arrived at EDR: 08/31/2020
Date Made Active in Reports: 11/20/2020
Number of Days to Update: 81
Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 12/01/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 09/20/2020
Date Data Arrived at EDR: 09/22/2020
Date Made Active in Reports: 12/14/2020
Number of Days to Update: 83
Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 12/17/2020
Next Scheduled EDR Contact: 04/05/2021
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 09/30/2020
Date Data Arrived at EDR: 10/19/2020
Date Made Active in Reports: 01/07/2021
Number of Days to Update: 80
Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 01/20/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83
Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 12/14/2020
Date Data Arrived at EDR: 12/17/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 5

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/17/2020
Next Scheduled EDR Contact: 04/05/2021
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 09/29/2020
Date Data Arrived at EDR: 11/17/2020
Date Made Active in Reports: 01/25/2021
Number of Days to Update: 69

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 11/17/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 01/15/2021
Next Scheduled EDR Contact: 04/26/2021
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 01/07/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 11/09/2020
Next Scheduled EDR Contact: 02/22/2021
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 09/21/2020
Date Data Arrived at EDR: 09/22/2020
Date Made Active in Reports: 12/14/2020
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 12/17/2020
Next Scheduled EDR Contact: 04/05/2021
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 11/02/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 11/06/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/17/2020
Date Made Active in Reports: 09/10/2020
Number of Days to Update: 85

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/18/2020
Next Scheduled EDR Contact: 03/29/2021
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 08/14/2020
Date Made Active in Reports: 11/04/2020
Number of Days to Update: 82

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 11/17/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 10/19/2020
Date Data Arrived at EDR: 10/19/2020
Date Made Active in Reports: 01/04/2021
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/21/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 20

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 01/14/2021
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 11/02/2020
Date Data Arrived at EDR: 11/12/2020
Date Made Active in Reports: 01/25/2021
Number of Days to Update: 74

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 04/27/2020
Date Data Arrived at EDR: 05/06/2020
Date Made Active in Reports: 06/09/2020
Number of Days to Update: 34
Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 01/14/2021
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 10/09/2019
Date Data Arrived at EDR: 10/11/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 70
Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/08/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/30/2020
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/05/2020
Date Data Arrived at EDR: 08/10/2020
Date Made Active in Reports: 10/08/2020
Number of Days to Update: 59
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 01/15/2020
Number of Days to Update: 42
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 12/01/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 11/30/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 11/06/2021
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 01/08/2021
Next Scheduled EDR Contact: 04/12/2021
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 10/27/2020
Next Scheduled EDR Contact: 02/08/2021
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 09/30/2020
Date Data Arrived at EDR: 10/08/2020
Date Made Active in Reports: 01/04/2021
Number of Days to Update: 88

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 01/04/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 11/20/2020
Number of Days to Update: 151

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 12/23/2020
Next Scheduled EDR Contact: 04/05/2021
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/08/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 11/06/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 11/20/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites
A listing of former lead smelter site locations.

Date of Government Version: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 20

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 01/14/2021
Next Scheduled EDR Contact: 04/12/2021
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites
A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)
The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File
Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 01/25/2021
Number of Days to Update: 63

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 11/23/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: Semi-Annually

MINES VIOLATIONS: MSHA Violation Assessment Data
Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 11/24/2020
Date Data Arrived at EDR: 11/30/2020
Date Made Active in Reports: 01/25/2021
Number of Days to Update: 56

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 11/24/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Quarterly

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/06/2020
Date Data Arrived at EDR: 05/27/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 78

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/25/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/25/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 09/16/2020
Date Data Arrived at EDR: 09/17/2020
Date Made Active in Reports: 12/10/2020
Number of Days to Update: 84

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 12/10/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 11/04/2020
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 01/25/2021
Number of Days to Update: 55

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 12/01/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 07/02/2020
Date Made Active in Reports: 09/17/2020
Number of Days to Update: 77

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 01/15/2021
Next Scheduled EDR Contact: 04/26/2021
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing
A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 71
Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 11/17/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information
ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 10/03/2020
Date Data Arrived at EDR: 10/06/2020
Date Made Active in Reports: 01/04/2021
Number of Days to Update: 90
Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 01/08/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 11/13/2020
Date Data Arrived at EDR: 11/13/2020
Date Made Active in Reports: 01/25/2021
Number of Days to Update: 73
Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 11/13/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan
Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6
Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 06/22/2020
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 09/04/2020
Number of Days to Update: 74
Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 12/17/2020
Next Scheduled EDR Contact: 04/05/2021
Data Release Frequency: Quarterly

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing
list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/14/2019
Date Made Active in Reports: 07/17/2019
Number of Days to Update: 64
Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 11/13/2020
Next Scheduled EDR Contact: 02/22/2021
Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 08/25/2020
Date Data Arrived at EDR: 08/26/2020
Date Made Active in Reports: 11/13/2020
Number of Days to Update: 79

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 11/23/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 08/06/2020
Date Data Arrived at EDR: 08/28/2020
Date Made Active in Reports: 11/17/2020
Number of Days to Update: 81

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 11/23/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Annually

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 08/19/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 09/04/2020
Number of Days to Update: 14

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 11/16/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: Varies

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 06/16/2020
Date Made Active in Reports: 08/28/2020
Number of Days to Update: 73

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 12/18/2020
Next Scheduled EDR Contact: 03/29/2021
Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 10/16/2020
Date Data Arrived at EDR: 10/19/2020
Date Made Active in Reports: 01/07/2021
Number of Days to Update: 80

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 01/20/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 10/13/2020
Date Data Arrived at EDR: 10/14/2020
Date Made Active in Reports: 01/04/2021
Number of Days to Update: 82

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 01/22/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 08/05/2020
Date Data Arrived at EDR: 08/05/2020
Date Made Active in Reports: 10/23/2020
Number of Days to Update: 79

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 11/04/2020
Next Scheduled EDR Contact: 02/22/2021
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 04/15/2020
Date Made Active in Reports: 07/02/2020
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 01/05/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 08/17/2020
Date Data Arrived at EDR: 08/17/2020
Date Made Active in Reports: 11/05/2020
Number of Days to Update: 80

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 11/13/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 08/17/2020
Date Data Arrived at EDR: 08/17/2020
Date Made Active in Reports: 11/05/2020
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/13/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 10/05/2020
Date Data Arrived at EDR: 10/06/2020
Date Made Active in Reports: 12/23/2020
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 01/05/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83
Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 12/08/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 08/31/2020
Date Data Arrived at EDR: 08/31/2020
Date Made Active in Reports: 11/20/2020
Number of Days to Update: 81
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 12/01/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 08/10/2020
Date Data Arrived at EDR: 08/10/2020
Date Made Active in Reports: 10/29/2020
Number of Days to Update: 80
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 11/09/2020
Next Scheduled EDR Contact: 02/22/2021
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 08/31/2020
Date Data Arrived at EDR: 08/31/2020
Date Made Active in Reports: 11/20/2020
Number of Days to Update: 81
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 12/01/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 12/01/2020
Number of Days to Update: 84
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 12/08/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 12/07/2020
Date Data Arrived at EDR: 12/09/2020
Date Made Active in Reports: 12/10/2020
Number of Days to Update: 1
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 12/07/2020
Next Scheduled EDR Contact: 03/29/2021
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 12/01/2020
Number of Days to Update: 84
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 12/08/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83
Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 11/19/2019
Date Data Arrived at EDR: 01/07/2020
Date Made Active in Reports: 03/09/2020
Number of Days to Update: 62
Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 01/08/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9
Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 11/13/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: No Update Planned

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13
Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 12/15/2020
Next Scheduled EDR Contact: 04/05/2021
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 12/01/2020
Number of Days to Update: 84
Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 12/08/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 08/31/2020
Date Data Arrived at EDR: 08/31/2020
Date Made Active in Reports: 11/20/2020
Number of Days to Update: 81
Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 12/01/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 10/19/2020
Date Data Arrived at EDR: 10/19/2020
Date Made Active in Reports: 01/07/2021
Number of Days to Update: 80
Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 01/20/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)
Produced water ponds sites

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

PCS INACTIVE: Listing of Inactive PCS Permits
An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120
Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 01/04/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Semi-Annually

PCS: Permit Compliance System
PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55
Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 01/04/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Semi-Annually

HWTS: Hazardous Waste Tracking System
DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

Date of Government Version: 10/13/2020
Date Data Arrived at EDR: 10/14/2020
Date Made Active in Reports: 11/03/2020
Number of Days to Update: 20
Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System
Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 11/25/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: Varies

PCS ENF: Enforcement data
No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 12/30/2020
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners
EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 01/04/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 10/06/2020
Date Made Active in Reports: 12/23/2020
Number of Days to Update: 78

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 01/04/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 10/19/2020
Date Data Arrived at EDR: 10/22/2020
Date Made Active in Reports: 01/12/2021
Number of Days to Update: 82

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 10/19/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 12/30/2020
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 12/15/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 12/24/2020
Number of Days to Update: 8

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 12/15/2020
Next Scheduled EDR Contact: 04/05/2021
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/06/2020
Date Data Arrived at EDR: 04/23/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 78

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 10/28/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 10/19/2020
Date Data Arrived at EDR: 10/22/2020
Date Made Active in Reports: 01/13/2021
Number of Days to Update: 83

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 01/25/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 08/13/2020
Date Made Active in Reports: 10/22/2020
Number of Days to Update: 70

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 01/25/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 10/22/2020
Date Data Arrived at EDR: 11/03/2020
Date Made Active in Reports: 01/20/2021
Number of Days to Update: 78

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 01/25/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 10/02/2020
Date Data Arrived at EDR: 10/06/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 77

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 01/15/2021
Next Scheduled EDR Contact: 04/12/2021
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/13/2020
Date Data Arrived at EDR: 08/17/2020
Date Made Active in Reports: 11/05/2020
Number of Days to Update: 80

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 10/14/2020
Date Data Arrived at EDR: 10/15/2020
Date Made Active in Reports: 01/05/2021
Number of Days to Update: 82

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Varies

KERN COUNTY:

CUPA KERN: CUPA Facility List
A listing of sites included in the Kern County Hazardous Material Business Plan.

Date of Government Version: 10/29/2020
Date Data Arrived at EDR: 10/30/2020
Date Made Active in Reports: 01/15/2021
Number of Days to Update: 77

Source: Kern County Public Health
Telephone: 661-321-3000
Last EDR Contact: 01/15/2021
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 07/28/2020
Date Data Arrived at EDR: 07/30/2020
Date Made Active in Reports: 10/14/2020
Number of Days to Update: 76

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 05/11/2020
Date Data Arrived at EDR: 05/12/2020
Date Made Active in Reports: 07/27/2020
Number of Days to Update: 76

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 01/25/2021
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 08/13/2020
Date Data Arrived at EDR: 08/13/2020
Date Made Active in Reports: 10/23/2020
Number of Days to Update: 71

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 01/11/2021
Next Scheduled EDR Contact: 04/26/2021
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 07/31/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 11/09/2020
Number of Days to Update: 80

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 12/09/2020
Next Scheduled EDR Contact: 03/29/2021
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 10/19/2020
Date Data Arrived at EDR: 10/20/2020
Date Made Active in Reports: 01/12/2021
Number of Days to Update: 84

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 01/04/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 10/09/2020
Date Data Arrived at EDR: 10/09/2020
Date Made Active in Reports: 12/29/2020
Number of Days to Update: 81

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 01/12/2021
Next Scheduled EDR Contact: 04/26/2021
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 08/17/2020
Date Made Active in Reports: 11/05/2020
Number of Days to Update: 80

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 01/11/2021
Next Scheduled EDR Contact: 04/26/2021
Data Release Frequency: Varies

LOS ANGELES AST: Active & Inactive AST Inventory
A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58
Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 12/18/2020
Next Scheduled EDR Contact: 04/05/2021
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills
This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 04/30/2012
Date Data Arrived at EDR: 04/17/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 42
Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 01/15/2021
Next Scheduled EDR Contact: 04/26/2021
Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory
A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58
Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 12/18/2020
Next Scheduled EDR Contact: 04/05/2021
Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory
A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58
Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 12/18/2020
Next Scheduled EDR Contact: 04/05/2021
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 07/20/2020
Date Data Arrived at EDR: 10/09/2020
Date Made Active in Reports: 12/29/2020
Number of Days to Update: 81
Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 01/12/2021
Next Scheduled EDR Contact: 04/26/2021
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21
Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 10/07/2020
Next Scheduled EDR Contact: 01/25/2021
Data Release Frequency: No Update Planned

UST LONG BEACH: City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 65

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 09/11/2020
Date Data Arrived at EDR: 10/07/2020
Date Made Active in Reports: 12/23/2020
Number of Days to Update: 77

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/10/2020
Date Data Arrived at EDR: 08/12/2020
Date Made Active in Reports: 10/23/2020
Number of Days to Update: 72

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 12/21/2020
Next Scheduled EDR Contact: 04/12/2021
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 07/28/2020
Date Data Arrived at EDR: 07/30/2020
Date Made Active in Reports: 07/31/2020
Number of Days to Update: 1

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 08/20/2020
Date Data Arrived at EDR: 08/24/2020
Date Made Active in Reports: 11/09/2020
Number of Days to Update: 77

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 11/15/2020
Next Scheduled EDR Contact: 03/08/3021
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 07/13/2020
Date Data Arrived at EDR: 07/15/2020
Date Made Active in Reports: 07/31/2020
Number of Days to Update: 16

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 12/21/2020
Next Scheduled EDR Contact: 04/12/2021
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 11/16/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 11/16/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 10/26/2020
Date Data Arrived at EDR: 10/28/2020
Date Made Active in Reports: 01/15/2021
Number of Days to Update: 79

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 01/25/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 06/10/2020
Date Data Arrived at EDR: 08/03/2020
Date Made Active in Reports: 10/19/2020
Number of Days to Update: 77

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/02/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 07/02/2020
Date Data Arrived at EDR: 08/05/2020
Date Made Active in Reports: 10/23/2020
Number of Days to Update: 79

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/02/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 09/01/2020
Date Data Arrived at EDR: 11/03/2020
Date Made Active in Reports: 01/21/2021
Number of Days to Update: 79

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/03/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 11/24/2020
Date Data Arrived at EDR: 11/24/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 1

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 11/23/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 10/06/2020
Date Data Arrived at EDR: 10/07/2020
Date Made Active in Reports: 11/03/2020
Number of Days to Update: 27

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/09/2020
Next Scheduled EDR Contact: 03/29/2021
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 10/06/2020
Date Data Arrived at EDR: 10/07/2020
Date Made Active in Reports: 11/03/2020
Number of Days to Update: 27
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/09/2020
Next Scheduled EDR Contact: 03/29/2021
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 02/18/2020
Date Data Arrived at EDR: 03/31/2020
Date Made Active in Reports: 06/15/2020
Number of Days to Update: 76
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 12/30/2020
Next Scheduled EDR Contact: 04/12/2021
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 02/24/2020
Date Data Arrived at EDR: 03/31/2020
Date Made Active in Reports: 06/17/2020
Number of Days to Update: 78
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 12/30/2020
Next Scheduled EDR Contact: 04/12/2021
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 10/28/2020
Date Data Arrived at EDR: 10/30/2020
Date Made Active in Reports: 01/15/2021
Number of Days to Update: 77
Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 10/28/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 08/04/2020
Date Data Arrived at EDR: 08/05/2020
Date Made Active in Reports: 10/26/2020
Number of Days to Update: 82
Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 10/28/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 08/31/2020
Date Data Arrived at EDR: 08/31/2020
Date Made Active in Reports: 11/23/2020
Number of Days to Update: 84

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 12/01/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 04/18/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 06/19/2018
Number of Days to Update: 56

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/14/2020
Date Data Arrived at EDR: 07/16/2020
Date Made Active in Reports: 09/29/2020
Number of Days to Update: 75

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

SAN DIEGO CO SAM: Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 11/23/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

Date of Government Version: 08/03/2020
Date Data Arrived at EDR: 08/05/2020
Date Made Active in Reports: 10/22/2020
Number of Days to Update: 78

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 10/28/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Varies

LUST SAN FRANCISCO: Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 10/28/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 08/03/2020
Date Data Arrived at EDR: 08/05/2020
Date Made Active in Reports: 10/26/2020
Number of Days to Update: 82

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 10/28/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 12/09/2020
Next Scheduled EDR Contact: 03/29/2021
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 07/27/2020
Date Data Arrived at EDR: 08/12/2020
Date Made Active in Reports: 10/26/2020
Number of Days to Update: 75

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 64

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 12/11/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 12/01/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 08/20/2020
Date Data Arrived at EDR: 08/20/2020
Date Made Active in Reports: 11/09/2020
Number of Days to Update: 81

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 11/16/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 07/30/2020
Date Data Arrived at EDR: 07/31/2020
Date Made Active in Reports: 10/16/2020
Number of Days to Update: 77

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 10/28/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 08/13/2019
Number of Days to Update: 68

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 08/25/2020
Date Data Arrived at EDR: 08/26/2020
Date Made Active in Reports: 09/16/2020
Number of Days to Update: 21

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 12/03/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 12/15/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 12/23/2020
Number of Days to Update: 7

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 12/15/2020
Next Scheduled EDR Contact: 04/05/2021
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 09/18/2020
Date Data Arrived at EDR: 09/22/2020
Date Made Active in Reports: 12/14/2020
Number of Days to Update: 83

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 12/15/2020
Next Scheduled EDR Contact: 04/05/2021
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 10/06/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 77

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 01/11/2021
Next Scheduled EDR Contact: 04/26/2021
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 08/25/2020
Date Data Arrived at EDR: 08/26/2020
Date Made Active in Reports: 11/17/2020
Number of Days to Update: 83

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 11/23/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 08/11/2020
Date Data Arrived at EDR: 08/12/2020
Date Made Active in Reports: 10/26/2020
Number of Days to Update: 75

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 11/11/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 10/14/2020
Date Data Arrived at EDR: 10/15/2020
Date Made Active in Reports: 01/05/2021
Number of Days to Update: 82

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 10/30/2020
Date Data Arrived at EDR: 11/03/2020
Date Made Active in Reports: 01/20/2021
Number of Days to Update: 78

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 10/28/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 09/28/2020
Date Data Arrived at EDR: 10/22/2020
Date Made Active in Reports: 01/12/2021
Number of Days to Update: 82
Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 05/02/2021
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 12/21/2020
Next Scheduled EDR Contact: 04/12/2021
Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 11/05/2020
Next Scheduled EDR Contact: 02/22/2021
Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 09/28/2020
Date Data Arrived at EDR: 10/22/2020
Date Made Active in Reports: 01/12/2021
Number of Days to Update: 82
Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 01/20/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 08/26/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 12/01/2020
Number of Days to Update: 84
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 12/08/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 12/21/2020
Date Data Arrived at EDR: 12/23/2020
Date Made Active in Reports: 01/04/2021
Number of Days to Update: 12
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 12/20/2020
Next Scheduled EDR Contact: 04/11/2021
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 08/06/2020
Date Data Arrived at EDR: 08/07/2020
Date Made Active in Reports: 10/26/2020
Number of Days to Update: 80

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 01/25/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 08/10/2020
Date Data Arrived at EDR: 10/20/2020
Date Made Active in Reports: 11/02/2020
Number of Days to Update: 13

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/09/2020
Next Scheduled EDR Contact: 02/22/2021
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 01/08/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 04/29/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 72

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 10/30/2020
Next Scheduled EDR Contact: 02/08/2021
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/11/2021
Next Scheduled EDR Contact: 04/26/2021
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 10/02/2019
Date Made Active in Reports: 12/10/2019
Number of Days to Update: 69

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 12/03/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: Endeavor Business Media
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data
Source: Endeavor Business Media
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

APN 411-210-024 AND 411-210-006
APN 411-210-024 AND 411-210-006
CALIMESA, CA 92320

TARGET PROPERTY COORDINATES

Latitude (North):	33.995596 - 33° 59' 44.15''
Longitude (West):	117.061068 - 117° 3' 39.84''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	494360.1
UTM Y (Meters):	3761475.0
Elevation:	2371 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5640934 EL CASCO, CA
Version Date:	2012
North Map:	5630639 YUCAIPA, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

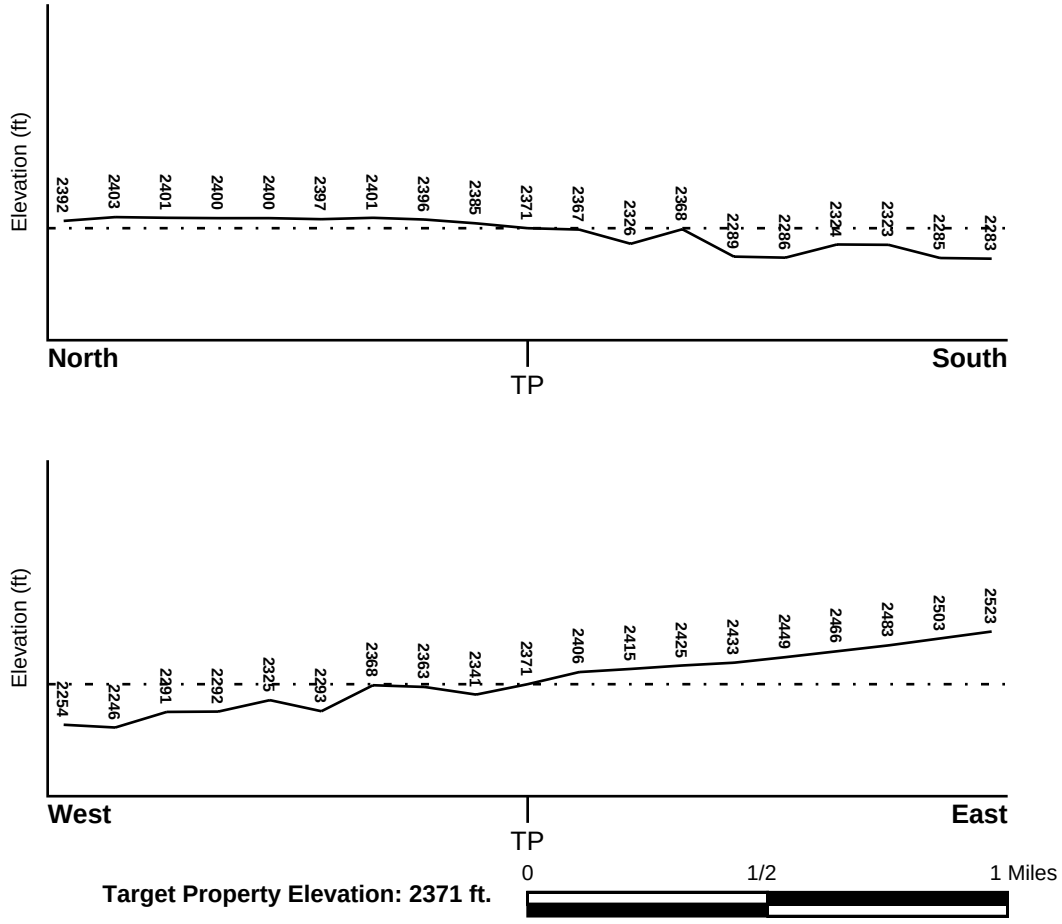
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06065C0785G	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06071C8740H	FEMA FIRM Flood data
06065C0118G	FEMA FIRM Flood data
0607400000A	FEMA Q3 Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
NOT AVAILABLE	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
H36	1/2 - 1 Mile North	Not Reported
1G	1/2 - 1 Mile North	Not Reported

For additional site information, refer to Physical Setting Source Map Findings.

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

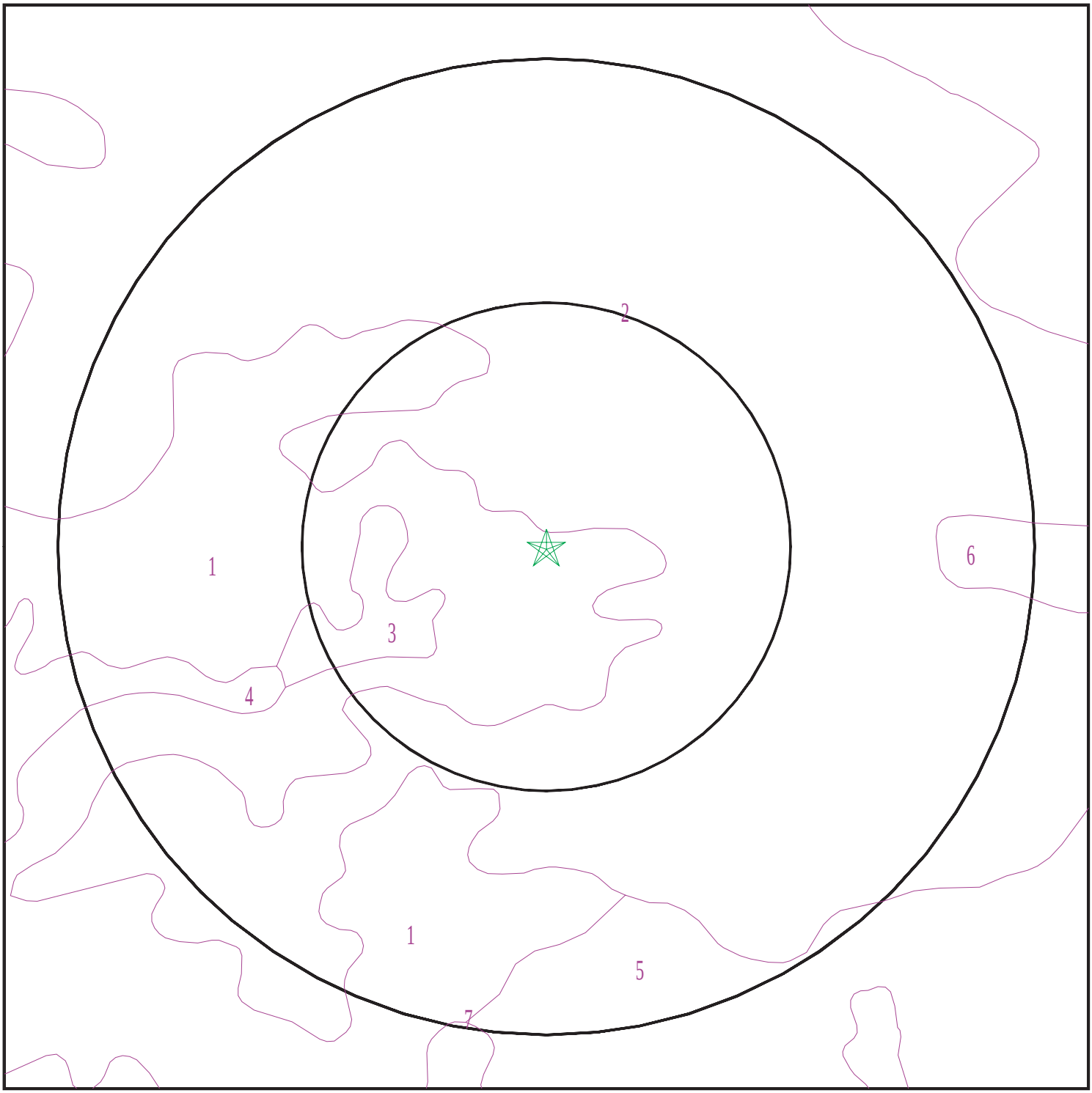
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 6342496.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	APN 411-210-024 and 411-210-006	CLIENT:	Partner Engineering and Science, Inc.
ADDRESS:	APN 411-210-024 and 411-210-006 CALIMESA CA 92320	CONTACT:	Angie Lessire
LAT/LONG:	33.995596 / 117.061068	INQUIRY #:	6342496.2s
		DATE:	January 26, 2021 8:06 am

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: SAN TIMOTEO

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 4 Min: 1.4	Max: Min:
2	9 inches	22 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 4 Min: 1.4	Max: Min:
3	22 inches	27 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 4 Min: 1.4	Max: Min:

Soil Map ID: 2

Soil Component Name: RAMONA

Soil Surface Texture: very fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information

	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	14 inches	very fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6
2	14 inches	22 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6
3	22 inches	68 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6
4	68 inches	74 inches	gravelly sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6

Soil Map ID: 3

Soil Component Name: SAN EMIGDIO

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information

	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 42 Min: 14	Max: 8.4 Min: 7.9
2	7 inches	40 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 42 Min: 14	Max: 8.4 Min: 7.9
3	40 inches	59 inches	stratified sandy loam to silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 42 Min: 14	Max: 8.4 Min: 7.9

Soil Map ID: 4

Soil Component Name: SAN EMIGDIO

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 42 Min: 14	Max: 8.4 Min: 7.9
2	7 inches	40 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 42 Min: 14	Max: 8.4 Min: 7.9
3	40 inches	59 inches	stratified sandy loam to silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 42 Min: 14	Max: 8.4 Min: 7.9

Soil Map ID: 5

Soil Component Name: Terrace escarpments

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class:
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 6

Soil Component Name: PLACENTIA

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information

	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	18 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 1.4 Min: 0.42	Max: 8.4 Min: 7.9
2	18 inches	38 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 1.4 Min: 0.42	Max: 8.4 Min: 7.9
3	38 inches	57 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 1.4 Min: 0.42	Max: 8.4 Min: 7.9
4	57 inches	59 inches	gravelly sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 1.4 Min: 0.42	Max: 8.4 Min: 7.9

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 7

Soil Component Name: HANFORD

Soil Surface Texture: coarse sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	coarse sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 5.6
2	7 inches	40 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 5.6
3	40 inches	59 inches	stratified loamy sand to coarse sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 5.6

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A2	USGS40000139618	1/4 - 1/2 Mile East
B4	USGS40000139694	1/4 - 1/2 Mile NNW
C8	USGS40000139609	1/4 - 1/2 Mile SE
D9	USGS40000139678	1/4 - 1/2 Mile West
D12	USGS40000139680	1/4 - 1/2 Mile West
F24	USGS40000139712	1/2 - 1 Mile NNW
G25	USGS40000139586	1/2 - 1 Mile SE
H33	USGS40000139722	1/2 - 1 Mile North
J44	USGS40000139717	1/2 - 1 Mile NW
L46	USGS40000139564	1/2 - 1 Mile SE
M48	USGS40000139699	1/2 - 1 Mile WNW
49	USGS40000139528	1/2 - 1 Mile South
N51	USGS40000139753	1/2 - 1 Mile NNW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
H30	CA3310017	1/2 - 1 Mile North

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

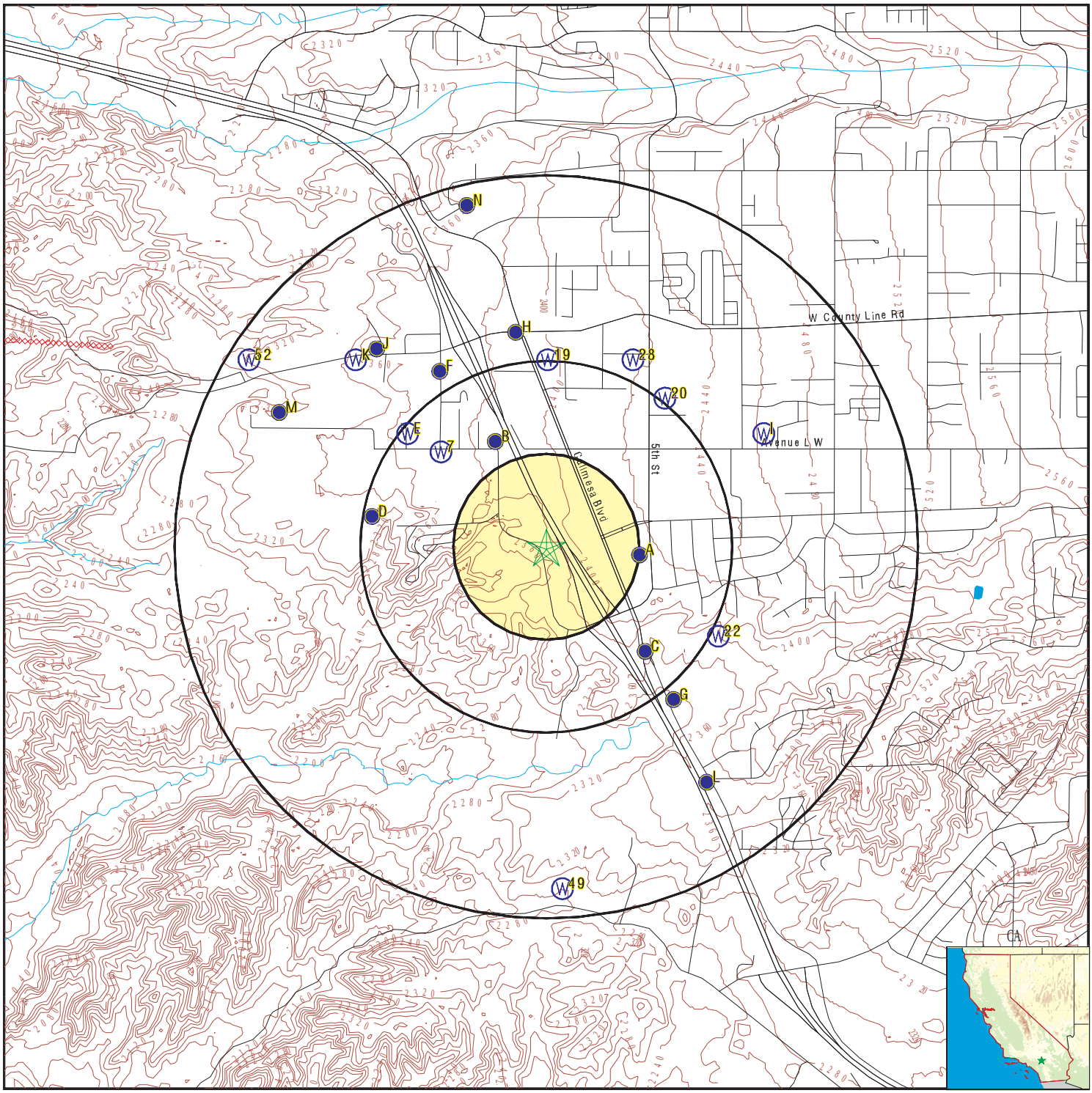
MAP ID	WELL ID	LOCATION FROM TP
A1	CADWR8000006338	1/8 - 1/4 Mile East
B3	CADWR0000009016	1/4 - 1/2 Mile NNW
B5	CADWR8000006354	1/4 - 1/2 Mile NNW
C6	CADWR8000006333	1/4 - 1/2 Mile SE
7	CADWR0000007718	1/4 - 1/2 Mile NW
D10	CADWR0000000261	1/4 - 1/2 Mile WNW
D11	CADDW0000008132	1/4 - 1/2 Mile West
E13	2414	1/4 - 1/2 Mile NW
E14	2413	1/4 - 1/2 Mile NW
E15	2420	1/4 - 1/2 Mile NW
E16	2421	1/4 - 1/2 Mile NW
E17	2415	1/4 - 1/2 Mile NW
E18	2417	1/4 - 1/2 Mile NW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
19	CADWR0000018679	1/2 - 1 Mile North
20	CADPR0000005453	1/2 - 1 Mile NE
D21	CADWR8000006351	1/2 - 1 Mile West
22	CADWR0000008211	1/2 - 1 Mile ESE
F23	CADDW0000019681	1/2 - 1 Mile NNW
G26	CADDW0000017586	1/2 - 1 Mile SE
G27	CAUSGSN00014890	1/2 - 1 Mile SE
28	CADWR0000025824	1/2 - 1 Mile NNE
H29	CAUSGSN00010142	1/2 - 1 Mile North
F31	CADWR0000018449	1/2 - 1 Mile NNW
F32	CADWR0000014793	1/2 - 1 Mile NNW
H34	CADDW0000021475	1/2 - 1 Mile North
H35	CADWR0000015250	1/2 - 1 Mile North
I37	2416	1/2 - 1 Mile ENE
I38	2412	1/2 - 1 Mile ENE
J39	2422	1/2 - 1 Mile NW
J40	CADDW0000007590	1/2 - 1 Mile NW
K41	CADWR0000037654	1/2 - 1 Mile NW
K42	CADWR0000025830	1/2 - 1 Mile NW
K43	CADWR0000021217	1/2 - 1 Mile NW
L45	CADWR0000011498	1/2 - 1 Mile SSE
M47	CADDW0000008165	1/2 - 1 Mile WNW
N50	CAUSGSN00013965	1/2 - 1 Mile NNW
52	CADWR0000011372	1/2 - 1 Mile WNW
N53	CADDW0000002259	1/2 - 1 Mile NNW

PHYSICAL SETTING SOURCE MAP - 6342496.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	APN 411-210-024 and 411-210-006	CLIENT:	Partner Engineering and Science, Inc.
ADDRESS:	APN 411-210-024 and 411-210-006 CALIMESA CA 92320	CONTACT:	Angie Lessire
LAT/LONG:	33.995596 / 117.061068	INQUIRY #:	6342496.2s
		DATE:	January 26, 2021 8:06 am

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A1
East
1/8 - 1/4 Mile
Higher

CA WELLS **CADWR8000006338**

State Well #:	02S02W14J002S	Station ID:	26176
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Yucaipa	Well Completion Rpt #:	Not Reported

A2
East
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000139618**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	002S002W14J002S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	28	Level reading date:	2004-10-25
Feet below surface:	161.5	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	2004-10-25	Feet below surface:	161.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-04-20	Feet below surface:	160.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-04-20	Feet below surface:	160.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-11-17	Feet below surface:	160.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-11-17	Feet below surface:	160.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-04-28	Feet below surface:	159.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-04-28	Feet below surface:	159.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-11-04	Feet below surface:	160.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-11-04	Feet below surface:	160.5
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2002-04-22	Feet below surface:	158.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-04-22	Feet below surface:	158.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-11-05	Feet below surface:	158.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-11-05	Feet below surface:	158.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-05-14	Feet below surface:	156.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-05-14	Feet below surface:	156.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-10-23	Feet below surface:	157.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-10-23	Feet below surface:	157.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-04-25	Feet below surface:	156.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-04-25	Feet below surface:	156.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-10-25	Feet below surface:	156.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-10-25	Feet below surface:	156.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-04-26	Feet below surface:	155.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-04-26	Feet below surface:	155.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-06-02	Feet below surface:	157.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-06-02	Feet below surface:	157.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-05-11	Feet below surface:	218.52
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-05-11	Feet below surface:	218.52
Feet to sea level:	Not Reported	Note:	Not Reported

B3
NNW
1/4 - 1/2 Mile
Higher

CA WELLS **CADWR0000009016**

Well ID:	02S02W14F001S	Well Type:	UNK
Source:	Department of Water Resources		

Other Name:	02S02W14F001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S02W14F001S&store_num=		
GeoTracker Data:	Not Reported		

B4
NNW **FED USGS** **USGS40000139694**
1/4 - 1/2 Mile
Higher

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	002S002W14F001S	Type:	Well
Description:	ROCKWELL GPS FOR LAT/LONG., NAD27		
HUC:	18070203	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	California Coastal Basin aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1927	Well Depth:	0
Well Depth Units:	ft	Well Hole Depth:	360
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	4	Level reading date:	1999-10-25
Feet below surface:	Not Reported	Feet to sea level:	Not Reported
Note:	The well was destroyed (no water level is recorded).		

Level reading date:	1999-10-25	Feet below surface:	Not Reported
Feet to sea level:	Not Reported		
Note:	The well was destroyed (no water level is recorded).		

Level reading date:	1998-06-02	Feet below surface:	263.5
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1998-06-02	Feet below surface:	263.5
Feet to sea level:	Not Reported	Note:	Not Reported

B5
NNW **CA WELLS** **CADWR8000006354**
1/4 - 1/2 Mile
Higher

State Well #:	02S02W14F001S	Station ID:	2660
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Yucaipa	Well Completion Rpt #:	Not Reported

C6
SE **CA WELLS** **CADWR8000006333**
1/4 - 1/2 Mile
Higher

State Well #:	02S02W14R001S	Station ID:	26177
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	San Timoteo	Well Completion Rpt #:	Not Reported

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

7
NW
1/4 - 1/2 Mile
Higher

CA WELLS **CADWR0000007718**

Well ID:	02S02W14E002S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	02S02W14E002S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S02W14E002S&store_num=		
GeoTracker Data:	Not Reported		

C8
SE
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000139609**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	002S002W14R001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	500
Well Depth Units:	ft	Well Hole Depth:	500
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	43	Level reading date:	2004-10-25
Feet below surface:	103.7	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	2004-04-20	Feet below surface:	101.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-11-17	Feet below surface:	101.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-04-28	Feet below surface:	99.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-11-04	Feet below surface:	102.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-04-22	Feet below surface:	99.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-11-05	Feet below surface:	101.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-05-14	Feet below surface:	96.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-10-23	Feet below surface:	97.7
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2000-04-24	Feet below surface:	96.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-10-25	Feet below surface:	98.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-04-26	Feet below surface:	95.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-04-01	Feet below surface:	90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-11-09	Feet below surface:	98.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-11-01	Feet below surface:	98
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-06-01	Feet below surface:	96.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1993-10-17	Feet below surface:	109
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1991-11-12	Feet below surface:	11.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1991-08-15	Feet below surface:	112
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1991-05-01	Feet below surface:	112
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1991-02-08	Feet below surface:	112
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1990-11-01	Feet below surface:	112
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1990-08-01	Feet below surface:	112
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-13	Feet below surface:	116
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-13	Feet below surface:	171
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-18	Feet below surface:	123
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-01	Feet below surface:	123
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-11-01	Feet below surface:	127
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-11-28	Feet below surface:	132
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-10-18	Feet below surface:	138
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1976-04-13	Feet below surface:	134
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-11-10	Feet below surface:	138
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-05-12	Feet below surface:	133
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-12-16	Feet below surface:	138
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-05-08	Feet below surface:	137.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-12-06	Feet below surface:	145.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-04-06	Feet below surface:	141
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-12-12	Feet below surface:	158
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-12-27	Feet below surface:	152
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-12-07	Feet below surface:	152
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-04-07	Feet below surface:	154
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-11-05	Feet below surface:	163
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-05-02	Feet below surface:	159.5
Feet to sea level:	Not Reported	Note:	Not Reported

D9
West
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000139678**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	002S002W14E001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19490207	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	1119
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	2	Level reading date:	1949-02-07
Feet below surface:	256	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1949-02-07	Feet below surface:	256
Feet to sea level:	Not Reported	Note:	Not Reported

D10
WNW **CA WELLS** **CADWR0000000261**
1/4 - 1/2 Mile
Lower

Well ID:	02S02W14M001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	02S02W14M001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S02W14M001S&store_num=		
GeoTracker Data:	Not Reported		

D11
West **CA WELLS** **CADDW0000008132**
1/4 - 1/2 Mile
Lower

Well ID:	3310017-004	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 05	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310017-004&store_num=		
GeoTracker Data:	Not Reported		

D12
West **FED USGS** **USGS40000139680**
1/4 - 1/2 Mile
Lower

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	002S002W14M001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	190	Level reading date:	1999-04-01
Feet below surface:	258	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1999-04-01	Feet below surface:	258
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-06-01	Feet below surface:	230
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-06-01	Feet below surface:	230
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1993-10-07	Feet below surface:	235.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1993-10-07	Feet below surface:	235.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1991-11-21	Feet below surface:	219
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1991-11-21	Feet below surface:	219
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1991-08-15	Feet below surface:	219
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1991-08-15	Feet below surface:	219
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1991-05-01	Feet below surface:	453
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1991-05-01	Feet below surface:	453
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1991-02-07	Feet below surface:	453
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1991-02-07	Feet below surface:	453
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1990-11-01	Feet below surface:	301
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1990-11-01	Feet below surface:	301
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1990-08-09	Feet below surface:	335
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1990-08-09	Feet below surface:	335
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1989-07-31	Feet below surface:	352
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1989-07-31	Feet below surface:	352
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1988-08-24	Feet below surface:	361
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1988-08-24	Feet below surface:	361
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1988-06-17	Feet below surface:	353
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1988-06-17	Feet below surface:	353
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-06-24	Feet below surface:	273
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1986-06-24	Feet below surface:	273
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-02-10	Feet below surface:	261
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-02-10	Feet below surface:	261
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-08-14	Feet below surface:	408
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-08-14	Feet below surface:	408
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-12-28	Feet below surface:	236
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-12-28	Feet below surface:	236
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-06-15	Feet below surface:	375
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-06-15	Feet below surface:	375
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-04-22	Feet below surface:	232
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-04-22	Feet below surface:	232
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-02-08	Feet below surface:	344
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-02-08	Feet below surface:	344
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-07-19	Feet below surface:	216.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-07-19	Feet below surface:	216.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-06-09	Feet below surface:	251
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-06-09	Feet below surface:	251
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-12-16	Feet below surface:	263
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-12-16	Feet below surface:	263
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-11-24	Feet below surface:	265
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-11-24	Feet below surface:	265
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1981-10-27	Feet below surface:	264
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-10-27	Feet below surface:	264
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-19	Feet below surface:	266
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-19	Feet below surface:	266
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-15	Feet below surface:	266.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-15	Feet below surface:	266.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-15	Feet below surface:	266
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-15	Feet below surface:	266
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-15	Feet below surface:	264
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-15	Feet below surface:	264
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-15	Feet below surface:	266
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-15	Feet below surface:	266
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-15	Feet below surface:	265
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-15	Feet below surface:	265
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-15	Feet below surface:	267
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-15	Feet below surface:	267
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-15	Feet below surface:	265
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-15	Feet below surface:	265
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-09-15	Feet below surface:	268
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-09-15	Feet below surface:	268
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-15	Feet below surface:	263
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1980-08-15	Feet below surface:	263
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-13	Feet below surface:	261
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-13	Feet below surface:	261
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-15	Feet below surface:	262
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-15	Feet below surface:	262
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03-15	Feet below surface:	263
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03-15	Feet below surface:	263
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-15	Feet below surface:	263
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-15	Feet below surface:	263
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-03-15	Feet below surface:	263
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-03-15	Feet below surface:	263
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-15	Feet below surface:	264
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-15	Feet below surface:	264
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-15	Feet below surface:	284
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-15	Feet below surface:	284
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-09-15	Feet below surface:	278
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-09-15	Feet below surface:	278
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-08-15	Feet below surface:	278
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-08-15	Feet below surface:	278
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-03-28	Feet below surface:	274
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-03-28	Feet below surface:	274
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1978-02-28	Feet below surface:	273
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-02-28	Feet below surface:	273
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-11-28	Feet below surface:	277
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-11-28	Feet below surface:	277
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-10-27	Feet below surface:	268
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-10-27	Feet below surface:	268
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-09-22	Feet below surface:	269
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-09-22	Feet below surface:	269
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-08-19	Feet below surface:	269
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-08-19	Feet below surface:	269
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-06-14	Feet below surface:	271
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-06-14	Feet below surface:	271
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-05-23	Feet below surface:	270
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-05-23	Feet below surface:	270
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-04-19	Feet below surface:	269
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-04-19	Feet below surface:	269
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-03-14	Feet below surface:	270
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-03-14	Feet below surface:	270
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-02-14	Feet below surface:	269
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-02-14	Feet below surface:	269
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-01-18	Feet below surface:	277
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1977-01-18	Feet below surface:	277
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-12-13	Feet below surface:	320
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-12-13	Feet below surface:	320
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-11-12	Feet below surface:	292
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-11-12	Feet below surface:	292
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-10-18	Feet below surface:	303
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-10-18	Feet below surface:	303
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-09-21	Feet below surface:	283
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-09-21	Feet below surface:	283
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-08-18	Feet below surface:	282
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-08-18	Feet below surface:	282
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-07-12	Feet below surface:	278
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-07-12	Feet below surface:	278
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-05-07	Feet below surface:	276
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-05-07	Feet below surface:	276
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-04-13	Feet below surface:	276
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-04-13	Feet below surface:	276
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-03-15	Feet below surface:	268
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-03-15	Feet below surface:	268
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-01-15	Feet below surface:	275
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-01-15	Feet below surface:	275
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1975-12-15	Feet below surface:	286
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-12-15	Feet below surface:	286
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-09-11	Feet below surface:	293
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-09-11	Feet below surface:	293
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-08-13	Feet below surface:	280
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-08-13	Feet below surface:	280
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-07-16	Feet below surface:	330
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-07-16	Feet below surface:	330
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-06-09	Feet below surface:	293
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-06-09	Feet below surface:	293
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-05-12	Feet below surface:	287
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-05-12	Feet below surface:	287
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-04-10	Feet below surface:	279
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-04-10	Feet below surface:	279
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-03-11	Feet below surface:	280
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-03-11	Feet below surface:	280
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-02-13	Feet below surface:	282
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-02-13	Feet below surface:	282
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-01-13	Feet below surface:	283
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-01-13	Feet below surface:	283
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-12-16	Feet below surface:	285
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1974-12-16	Feet below surface:	285
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-11-14	Feet below surface:	290
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-11-14	Feet below surface:	290
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-08-12	Feet below surface:	300
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-08-12	Feet below surface:	300
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-06-12	Feet below surface:	280
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-06-12	Feet below surface:	280
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-05-08	Feet below surface:	291
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-05-08	Feet below surface:	291
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-04-05	Feet below surface:	283.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-04-05	Feet below surface:	283.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-03-06	Feet below surface:	284
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-03-06	Feet below surface:	284
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-02-07	Feet below surface:	284.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-02-07	Feet below surface:	284.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-01-10	Feet below surface:	282
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-01-10	Feet below surface:	282
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-12-06	Feet below surface:	291.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-12-06	Feet below surface:	291.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-11-07	Feet below surface:	288.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-11-07	Feet below surface:	288.8
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1973-04-06	Feet below surface:	278
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-04-06	Feet below surface:	278
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-12-12	Feet below surface:	297
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-12-12	Feet below surface:	297
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-12-27	Feet below surface:	287
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-12-27	Feet below surface:	287
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-04-07	Feet below surface:	298
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-04-07	Feet below surface:	298
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-11-05	Feet below surface:	285
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-11-05	Feet below surface:	285
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-05-02	Feet below surface:	299
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-05-02	Feet below surface:	299
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-01-08	Feet below surface:	287
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-01-08	Feet below surface:	287
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-11-27	Feet below surface:	323
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-11-27	Feet below surface:	323
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-05-10	Feet below surface:	282
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-05-10	Feet below surface:	282
Feet to sea level:	Not Reported	Note:	Not Reported

E13
NW
1/4 - 1/2 Mile
Lower

CA WELLS 2414

Seq:	2414	Prim sta c:	02S/02W-14D01 S
Frds no:	3310017013	County:	33

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

District:	14	User id:	WAT
System no:	3310017	Water type:	G
Source nam:	WELL 16	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340000.0	Longitude:	1170400.0
Precision:	8	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3310017	System nam:	South Mesa Wc
Hqname:	Not Reported	Address:	P O BOX 458
City:	CALIMESA	State:	CA
Zip:	92320	Zip ext:	Not Reported
Pop serv:	7200	Connection:	2539
Area serve:	SOUTH MESA-CALIMESA		

Sample date:	13-MAR-18	Finding:	6.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	04-DEC-17	Finding:	5.3
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		

Sample date:	04-DEC-17	Finding:	9.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	12-SEP-17	Finding:	8.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	05-JUN-17	Finding:	8.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	03-MAR-17	Finding:	8.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	01-DEC-16	Finding:	7.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	01-SEP-16	Finding:	8.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	01-JUN-16	Finding:	8.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	11-APR-16	Finding:	18.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	11-APR-16	Finding:	8.3
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	11-APR-16	Finding:	12.39

Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-APR-16	Finding:	0.58
Chemical:	LANGELIER INDEX AT SOURCE TEMP.	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-APR-16	Finding:	1.17
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-APR-16	Finding:	350.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-16	Finding:	6.7
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	11-APR-16	Finding:	0.92
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	11-APR-16	Finding:	15.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	11-APR-16	Finding:	35.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-16	Finding:	1.3
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-16	Finding:	39.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-16	Finding:	21.11
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	11-APR-16	Finding:	570.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	11-APR-16	Finding:	7.7
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-APR-16	Finding:	200.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-16	Finding:	250.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-16	Finding:	8.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	11-APR-16	Finding:	210.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-16	Finding:	56.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	09-MAR-16	Finding:	8.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	28-DEC-15	Finding:	0.42
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-DEC-15	Finding:	2.3
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-DEC-15	Finding:	0.88
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-DEC-15	Finding:	0.2
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-DEC-15	Finding:	0.606
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-DEC-15	Finding:	8.3
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	28-DEC-15	Finding:	2.7
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-DEC-15	Finding:	0.47
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-DEC-15	Finding:	0.14
Chemical:	RADIUM 226 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-DEC-15	Finding:	8.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-DEC-15	Finding:	3.1
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	01-DEC-15	Finding:	2.3
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-DEC-15	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	01-DEC-15	Finding:	0.53
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-DEC-15	Finding:	2.3
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-DEC-15	Finding:	0.88
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-SEP-15	Finding:	33.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-JUN-15	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-MAR-15	Finding:	35.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-DEC-14	Finding:	6.6
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	01-DEC-14	Finding:	35.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-SEP-14	Finding:	34.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-JUN-14	Finding:	34.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-MAR-14	Finding:	33.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-DEC-13	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-SEP-13	Finding:	34.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	11-JUN-13	Finding:	34.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-APR-13	Finding:	1.5
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	03-APR-13	Finding:	35.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-13	Finding:	15.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	03-APR-13	Finding:	6.4
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	03-APR-13	Finding:	0.13
Chemical:	FOAMING AGENTS (MBAS)	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-13	Finding:	330.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-13	Finding:	1.36
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-APR-13	Finding:	0.79
Chemical:	LANGELIER INDEX AT SOURCE TEMP.	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-APR-13	Finding:	32.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-APR-13	Finding:	12.58
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-APR-13	Finding:	7100.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-APR-13	Finding:	42.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-13	Finding:	17.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-13	Finding:	58.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-13	Finding:	220.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-13	Finding:	250.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-13	Finding:	210.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L

Dlr:	0.		
Sample date:	03-APR-13	Finding:	7.8
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-APR-13	Finding:	8.1
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-APR-13	Finding:	580.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	03-APR-13	Finding:	22.222
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	03-APR-13	Finding:	0.98
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	13-MAR-13	Finding:	32.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-DEC-12	Finding:	32.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-SEP-12	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	21-JUN-12	Finding:	24.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-MAR-12	Finding:	29.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

E14
NW
1/4 - 1/2 Mile
Lower

CA WELLS 2413

Seq:	2413	Prim sta c:	02S/02W-14C01 S
Frds no:	3310017009	County:	33
District:	14	User id:	WAT
System no:	3310017	Water type:	G
Source nam:	WELL 11 - INACTIVE	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340000.0	Longitude:	1170400.0
Precision:	8	Status:	IU
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3310017	System nam:	South Mesa Wc
Hqname:	Not Reported	Address:	P O BOX 458

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

City:	CALIMESA	State:	CA
Zip:	92320	Zip ext:	Not Reported
Pop serv:	7200	Connection:	2539
Area serve:	SOUTH MESA-CALIMESA		
Sample date:	13-MAR-18	Finding:	7.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	04-DEC-17	Finding:	4.4
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	04-DEC-17	Finding:	7.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	12-SEP-17	Finding:	7.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-JUN-17	Finding:	7.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-MAR-17	Finding:	8.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-DEC-16	Finding:	7.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-SEP-16	Finding:	7.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-JUN-16	Finding:	7.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-APR-16	Finding:	7.5
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-APR-16	Finding:	12.34
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-APR-16	Finding:	0.2
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	11-APR-16	Finding:	0.54
Chemical:	LANGELIER INDEX AT SOURCE TEMP.	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-APR-16	Finding:	1.13
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-APR-16	Finding:	370.

Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-16	Finding:	7.6
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	11-APR-16	Finding:	0.99
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	11-APR-16	Finding:	22.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	11-APR-16	Finding:	28.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-16	Finding:	1.3
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-16	Finding:	36.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-16	Finding:	17.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-16	Finding:	55.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-16	Finding:	210.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-16	Finding:	7.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-APR-16	Finding:	240.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-16	Finding:	190.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-16	Finding:	7.6
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-APR-16	Finding:	550.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	11-APR-16	Finding:	21.67
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		

Sample date:	09-MAR-16	Finding:	7.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	28-DEC-15	Finding:	0.48
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-DEC-15	Finding:	2.5
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-DEC-15	Finding:	0.88
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-DEC-15	Finding:	0.456
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-DEC-15	Finding:	0.47
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-DEC-15	Finding:	0.2
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-DEC-15	Finding:	2.4
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-DEC-15	Finding:	0.114
Chemical:	RADIUM 226 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-DEC-15	Finding:	7.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-DEC-15	Finding:	2.9
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-DEC-15	Finding:	32.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	01-DEC-15	Finding:	0.5
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-DEC-15	Finding:	1.9
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-DEC-15	Finding:	0.88
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-SEP-15	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	08-JUN-15	Finding:	32.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-MAR-15	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-DEC-14	Finding:	5.
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	01-DEC-14	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-SEP-14	Finding:	36.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-MAR-14	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-DEC-13	Finding:	32.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-SEP-13	Finding:	29.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	11-JUN-13	Finding:	27.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-APR-13	Finding:	0.13
Chemical:	FOAMING AGENTS (MBAS)	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-13	Finding:	330.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-13	Finding:	1.41
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-APR-13	Finding:	0.83
Chemical:	LANGELIER INDEX AT SOURCE TEMP.	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-APR-13	Finding:	27.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-APR-13	Finding:	12.63
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		

Sample date:	03-APR-13	Finding:	6200.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-APR-13	Finding:	21.667
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	03-APR-13	Finding:	560.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	03-APR-13	Finding:	8.2
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-APR-13	Finding:	7.9
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-APR-13	Finding:	200.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-13	Finding:	240.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-13	Finding:	210.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-13	Finding:	55.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-13	Finding:	17.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-13	Finding:	44.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-13	Finding:	1.6
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-13	Finding:	28.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-13	Finding:	22.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	03-APR-13	Finding:	1.1
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	03-APR-13	Finding:	7.2
Chemical:	VANADIUM	Report units:	UG/L

Dlr:	3.		
Sample date:	13-MAR-13	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-DEC-12	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-SEP-12	Finding:	27.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	21-JUN-12	Finding:	20.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-MAR-12	Finding:	25.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

E15
NW
1/4 - 1/2 Mile
Lower

CA WELLS 2420

Seq:	2420	Prim sta c:	02S/02W-15A01 S
Frds no:	3310017007	County:	33
District:	14	User id:	WAT
System no:	3310017	Water type:	G
Source nam:	WELL 08 - ABANDONED	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340000.0	Longitude:	1170400.0
Precision:	8	Status:	AB
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3310017	System nam:	South Mesa Wc
Hqname:	Not Reported	Address:	P O BOX 458
City:	CALIMESA	State:	CA
Zip:	92320	Zip ext:	Not Reported
Pop serv:	7200	Connection:	2539
Area serve:	SOUTH MESA-CALIMESA		

E16
NW
1/4 - 1/2 Mile
Lower

CA WELLS 2421

Seq:	2421	Prim sta c:	02S/02W-15A03 S
Frds no:	3310017006	County:	33
District:	14	User id:	WAT
System no:	3310017	Water type:	G
Source nam:	WELL 07	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340000.0	Longitude:	1170400.0
Precision:	8	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported

Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3310017	System nam:	South Mesa Wc
Hqname:	Not Reported	Address:	P O BOX 458
City:	CALIMESA	State:	CA
Zip:	92320	Zip ext:	Not Reported
Pop serv:	7200	Connection:	2539
Area serve:	SOUTH MESA-CALIMESA		
Sample date:	04-DEC-17	Finding:	3.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	04-DEC-17	Finding:	4.7
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	12-SEP-17	Finding:	3.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-JUN-17	Finding:	3.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-MAR-17	Finding:	2.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-DEC-16	Finding:	3.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-SEP-16	Finding:	3.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-JUN-16	Finding:	2.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-APR-16	Finding:	47.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-16	Finding:	1.7
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-16	Finding:	31.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-16	Finding:	25.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	11-APR-16	Finding:	1.1
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		

Sample date:	11-APR-16	Finding:	8.1
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	11-APR-16	Finding:	320.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-16	Finding:	1.15
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-APR-16	Finding:	0.55
Chemical:	LANGELIER INDEX AT SOURCE TEMP.	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-APR-16	Finding:	0.3
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	11-APR-16	Finding:	12.36
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-APR-16	Finding:	3.3
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-APR-16	Finding:	15.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-16	Finding:	48.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-16	Finding:	180.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-16	Finding:	3.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-APR-16	Finding:	230.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-16	Finding:	190.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-16	Finding:	7.7
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-APR-16	Finding:	530.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	11-APR-16	Finding:	20.56
Chemical:	SOURCE TEMPERATURE C	Report units:	C

Dlr:	0.		
Sample date:	28-DEC-15	Finding:	3.7
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	28-DEC-15	Finding:	2.1
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-DEC-15	Finding:	0.55
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-DEC-15	Finding:	2.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-DEC-15	Finding:	0.88
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-DEC-15	Finding:	0.147
Chemical:	RADIUM 226 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-DEC-15	Finding:	0.512
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-DEC-15	Finding:	0.47
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-DEC-15	Finding:	0.2
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-DEC-15	Finding:	0.56
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-DEC-15	Finding:	2.5
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-DEC-15	Finding:	6.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	01-DEC-15	Finding:	0.88
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-DEC-15	Finding:	2.2
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-DEC-14	Finding:	5.2
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		

Sample date:	14-JUL-14	Finding:	22.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-APR-13	Finding:	50.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-13	Finding:	1.6
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-13	Finding:	30.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-13	Finding:	27.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	03-APR-13	Finding:	1.1
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	03-APR-13	Finding:	300.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-13	Finding:	1.65
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-APR-13	Finding:	1.08
Chemical:	LANGELIER INDEX AT SOURCE TEMP.	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-APR-13	Finding:	12.87
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-APR-13	Finding:	3100.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-APR-13	Finding:	15.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-13	Finding:	48.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-13	Finding:	180.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-13	Finding:	240.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-13	Finding:	190.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L

Dlr:	0.		
Sample date:	03-APR-13	Finding:	7.9
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-APR-13	Finding:	8.5
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-APR-13	Finding:	550.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	03-APR-13	Finding:	22.222
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		

E17
NW
1/4 - 1/2 Mile
Lower

CA WELLS 2415

Seq:	2415	Prim sta c:	02S/02W-14F02 S
Frds no:	3310017012	County:	33
District:	14	User id:	WAT
System no:	3310017	Water type:	G
Source nam:	WELL 15 - ABANDONED	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340000.0	Longitude:	1170400.0
Precision:	8	Status:	AB
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3310017	System nam:	South Mesa Wc
Hqname:	Not Reported	Address:	P O BOX 458
City:	CALIMESA	State:	CA
Zip:	92320	Zip ext:	Not Reported
Pop serv:	7200	Connection:	2539
Area serve:	SOUTH MESA-CALIMESA		

E18
NW
1/4 - 1/2 Mile
Lower

CA WELLS 2417

Seq:	2417	Prim sta c:	02S/02W-14M01 S
Frds no:	3310017004	County:	33
District:	14	User id:	WAT
System no:	3310017	Water type:	G
Source nam:	WELL 05	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340000.0	Longitude:	1170400.0
Precision:	8	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3310017	System nam:	South Mesa Wc

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Hqname:	Not Reported	Address:	P O BOX 458
City:	CALIMESA	State:	CA
Zip:	92320	Zip ext:	Not Reported
Pop serv:	7200	Connection:	2539
Area serve:	SOUTH MESA-CALIMESA		
Sample date:	04-DEC-17	Finding:	1.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	04-DEC-17	Finding:	3.3
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	12-SEP-17	Finding:	1.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-JUN-17	Finding:	3.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-MAR-17	Finding:	2.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-DEC-16	Finding:	1.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-SEP-16	Finding:	1.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-JUN-16	Finding:	1.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-APR-16	Finding:	42.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-16	Finding:	1.8
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-16	Finding:	42.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-16	Finding:	9.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	11-APR-16	Finding:	0.48
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	11-APR-16	Finding:	300.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		

Sample date:	11-APR-16	Finding:	1.14
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-APR-16	Finding:	0.56
Chemical:	LANGELIER INDEX AT SOURCE TEMP.	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-APR-16	Finding:	0.4
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	11-APR-16	Finding:	12.35
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-APR-16	Finding:	3.5
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-APR-16	Finding:	13.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-16	Finding:	43.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-16	Finding:	160.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-16	Finding:	3.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-APR-16	Finding:	200.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-16	Finding:	160.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-16	Finding:	7.8
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-APR-16	Finding:	480.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	11-APR-16	Finding:	21.67
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	16-FEB-16	Finding:	0.153
Chemical:	RADIUM 226 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	16-FEB-16	Finding:	0.579
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L

Dlr:	0.		
Sample date:	16-FEB-16	Finding:	0.47
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	16-FEB-16	Finding:	0.2
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-DEC-15	Finding:	1.3
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-DEC-15	Finding:	1.3
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-DEC-14	Finding:	3.6
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	14-JUL-14	Finding:	4.9
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-JUL-13	Finding:	5.7
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	23-MAY-13	Finding:	5.5
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-APR-13	Finding:	17.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-13	Finding:	3.4
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-13	Finding:	52.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-13	Finding:	1.
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-13	Finding:	25.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-13	Finding:	13.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	03-APR-13	Finding:	0.68
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		

Sample date:	03-APR-13	Finding:	62.
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	03-APR-13	Finding:	190.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-13	Finding:	0.7
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-APR-13	Finding:	0.11
Chemical:	LANGELIER INDEX AT SOURCE TEMP.	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-APR-13	Finding:	5.8
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-APR-13	Finding:	11.9
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-APR-13	Finding:	1300.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-APR-13	Finding:	56.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-13	Finding:	140.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-13	Finding:	120.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-13	Finding:	8.3
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-APR-13	Finding:	8.2
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-APR-13	Finding:	350.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	03-APR-13	Finding:	21.111
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	12-MAR-12	Finding:	4.1
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

19
North
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000018679**

Well ID:	02S02W14C002S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	02S02W14C002S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S02W14C002S&store_num=		
GeoTracker Data:	Not Reported		

20
NE
1/2 - 1 Mile
Higher

CA WELLS **CADPR0000005453**

Well ID:	81490	Well Type:	UNK
Source:	Department of Pesticide Regulation		
Other Name:	81490	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DPR&samp_date=&global_id=&assigned_name=81490&store_num=		
GeoTracker Data:	Not Reported		

D21
West
1/2 - 1 Mile
Lower

CA WELLS **CADWR8000006351**

State Well #:	02S02W14E001S	Station ID:	2659
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Yucaipa	Well Completion Rpt #:	Not Reported

22
ESE
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000008211**

Well ID:	02S02W14R002S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	02S02W14R002S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S02W14R002S&store_num=		
GeoTracker Data:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

F23
NNW
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000019681**

Well ID:	3310017-013	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 16	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310017-013&store_num=		
GeoTracker Data:	Not Reported		

F24
NNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000139712**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	002S002W14D001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	194605	Well Depth:	400
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

G25
SE
1/2 - 1 Mile
Lower

FED USGS **USGS40000139586**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	002S002W14R003S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19680419	Well Depth:	1000
Well Depth Units:	ft	Well Hole Depth:	1000
Well Hole Depth Units:	ft		

G26
SE
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000017586**

Well ID:	3310017-003	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 04	GAMA PFAS Testing:	Not Reported

Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310017-003&store_num=
GeoTracker Data: Not Reported

G27
SE
1/2 - 1 Mile
Lower

CA WELLS **CAUSGSN00014890**

Well ID:	USGS-335924117031701	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-335924117031701	GAMA PFAS Testing:	Not Reported

Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-335924117031701&store_num=
GeoTracker Data: Not Reported

28
NNE
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000025824**

Well ID:	02S02W14B001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	02S02W14B001S	GAMA PFAS Testing:	Not Reported

Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S02W14B001S&store_num=
GeoTracker Data: Not Reported

H29
North
1/2 - 1 Mile
Higher

CA WELLS **CAUSGSN00010142**

Well ID:	USGS-340014117034301	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-340014117034301	GAMA PFAS Testing:	Not Reported

Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-340014117034301&store_num=
GeoTracker Data: Not Reported

H30
North
1/2 - 1 Mile
Higher

FRDS PWS **CA3310017**

Epa region:	09	State:	CA
Pwsid:	CA3310017	Pwsname:	SOUTH MESA WC
Cityserved:	Not Reported	Stateserved:	CA
Zipserved:	Not Reported	Fipscounty:	06065
Status:	Active	Retpopsrvd:	9851
Pwssvcconn:	2912	Psource longname:	Groundwater
Pwstype:	CWS	Owner:	Private
Contact:	ARMSTRONG, DAVID	Contactorgname:	ARMSTRONG, DAVID
Contactphone:	909-795-2401	Contactaddress1:	P.O. BOX 458

Contactaddress2:	391 WEST AVE. L	Contactcity:	CALIMESA
Contactstate:	CA	Contactzip:	92320
Pwsactivitycode:	A		
Pwsid:	CA3310017	Facid:	45063
Facname:	WELL 04 - CL	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP
Pwsid:	CA3310017	Facid:	45064
Facname:	WELL 05 - CL	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP
Pwsid:	CA3310017	Facid:	45065
Facname:	WELL 07 - CL	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP
Pwsid:	CA3310017	Facid:	45066
Facname:	WELL 09 - CL	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP
Pwsid:	CA3310017	Facid:	45068
Facname:	WELL 11 - CL	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP
Pwsid:	CA3310017	Facid:	45069
Facname:	WELL 12 - CL	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP
Pwsid:	CA3310017	Facid:	45070
Facname:	WELL 16 - CL	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP
Pwsid:	CA3310017	Facid:	57158
Facname:	WELL 17 - CL	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP
PWS ID:	CA3310017	PWS name:	SOUTH MESA WC
Address:	Not Reported	Care of:	Not Reported
City:	CALIMESA	State:	CA
Zip:	92320	Owner:	SOUTH MESA WC
Source code:	Ground water	Population:	7929
PWS ID:	CA3310017	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS name:	South Mesa WC
PWS type code:	C	Retail population served:	9018
Contact:	David McClellan	Contact address:	P.O. Box 458
Contact address:	391 West Ave. L	Contact city:	Calimesa
Contact state:	CA	Contact zip:	92320
Contact telephone:	9097952401		
PWS ID:	CA3310017	Activity status:	Active
Date system activated:	7706	Date system deactivated:	Not Reported

Retail population:	00007200	System name:	SOUTH MESA WC
System address:	Not Reported	System address:	P O BOX 458
System city:	CALIMESA	System state:	CA
System zip:	92320		
County FIPS:	Not Reported	City served:	SOUTH MESA-CALI
County FIPS:	065	City served:	SOUTH MESA-CALI
Population served:	5,001 - 10,000 Persons	Treatment:	Treated
Latitude:	340014	Longitude:	1170339
Violation id:	1020004	Orig code:	S
State:	CA	Violation Year:	2010
Contamination code:	1025	Contamination Name:	Fluoride
Violation code:	04		
Violation name:	Monitoring, Check/Repeat/Confirmation		
Rule code:	333	Rule name:	Other IOC
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	04/01/2010
Cmp edt:	03/31/2011		
Violation id:	1020005	Orig code:	S
State:	CA	Violation Year:	2013
Contamination code:	5000	Contamination Name:	Lead and Copper Rule
Violation code:	52	Violation name:	Follow-up Or Routine LCR Tap M/R
Rule code:	350	Rule name:	LCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	10/01/2013
Cmp edt:	Not Reported		
Violation id:	920002	Orig code:	S
State:	CA	Violation Year:	2009
Contamination code:	2950	Contamination Name:	TTHM
Violation code:	27	Violation name:	Monitoring and Reporting (DBP)
Rule code:	210	Rule name:	St1 DBP
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	01/01/2009
Cmp edt:	12/31/2009		
Violation id:	920003	Orig code:	S
State:	CA	Violation Year:	2009
Contamination code:	2456	Contamination Name:	Total Haloacetic Acids (HAA5)
Violation code:	27	Violation name:	Monitoring and Reporting (DBP)
Rule code:	210	Rule name:	St1 DBP
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	01/01/2009
Cmp edt:	12/31/2009		
Violation id:	94V0001	Orig code:	F
State:	CA	Violation Year:	1993
Contamination code:	5000	Contamination Name:	Lead and Copper Rule
Violation code:	51	Violation name:	Initial Tap Sampling for Pb and Cu
Rule code:	350	Rule name:	LCR
Violation measur:	0	Unit of measure:	Not Reported
State mcl:	0	Cmp bdt:	06/30/1993
Cmp edt:	03/01/2000		

PWS currently has or had major violation(s) or enforcement:Yes

Violation ID:	94V0001	Violation source ID:	Not Reported

PWS telephone:	Not Reported	Contaminant:	LEAD & COPPER RULE
Violation type:	Initial Tap Sampling for Pb and Cu		
Violation start date:	063093	Violation end date:	122993
Violation period (months):	006	Violation awareness date:	Not Reported
Major violator:	Not Reported	Maximum contaminant level:	Not Reported
Number of required samples:	Not Reported	Number of samples taken:	Not Reported
Analysis method:	Not Reported	Analysis result:	Not Reported

PWS currently has or had major violation(s) or enforcement:Yes

Violation ID:	94V0002	Violation source ID:	Not Reported
PWS telephone:	Not Reported	Contaminant:	LEAD & COPPER RULE
Violation type:	Initial Tap Sampling for Pb and Cu		
Violation start date:	123193	Violation end date:	063094
Violation period (months):	006	Violation awareness date:	Not Reported
Major violator:	Not Reported	Maximum contaminant level:	Not Reported
Number of required samples:	Not Reported	Number of samples taken:	Not Reported
Analysis method:	Not Reported	Analysis result:	Not Reported

Violation ID:	1020004	Orig Code:	S
Enforcemnt FY:	2011	Enforcement Action:	01/11/2011
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		

Violation ID:	1020005	Orig Code:	S
Enforcemnt FY:	2014	Enforcement Action:	10/23/2013
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	1020005	Orig Code:	S
Enforcemnt FY:	2014	Enforcement Action:	10/30/2013
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal

Violation ID:	920002	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	02/08/2010
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		

Violation ID:	920002	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	01/11/2010
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	920003	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	02/08/2010
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		

Violation ID:	920003	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	01/11/2010
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	94V0001	Orig Code:	F
Enforcemnt FY:	2000	Enforcement Action:	03/01/2000
Enforcement Detail:	Fed Compliance achieved	Enforcement Category:	Resolving

PWS name:	South Mesa WC	Population served:	9018
PWS type code:	C	Violation ID:	94V0001
Contaminant:	LEAD & COPPER RULE	Violation type:	Initial Tap Sampling for Pb and Cu
Compliance start date:	6/30/1993 0:00:00	Compliance end date:	3/1/2000 0:00:00
Enforcement date:	3/1/2000 0:00:00	Enforcement action:	Fed Compliance Achieved
Violation measurement:	0		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

F31
NNW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000018449**

Well ID:	02S02W14D002S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	02S02W14D002S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S02W14D002S&store_num=		
GeoTracker Data:	Not Reported		

F32
NNW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000014793**

Well ID:	02S02W14D001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	02S02W14D001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S02W14D001S&store_num=		
GeoTracker Data:	Not Reported		

H33
North
1/2 - 1 Mile
Higher

FED USGS **USGS40000139722**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	002S002W14C001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19200400	Well Depth:	363
Well Depth Units:	ft	Well Hole Depth:	443
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	302	Level reading date:	1999-04-01
Feet below surface:	262	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1999-04-01	Feet below surface:	262
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1998-11-01	Feet below surface:	231.5
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1998-11-01	Feet below surface:	231.5
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1998-06-01	Feet below surface:	231.4

Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-06-01	Feet below surface:	231.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-11-01	Feet below surface:	220
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-11-01	Feet below surface:	220
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-05-02	Feet below surface:	247
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-05-02	Feet below surface:	247
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1993-10-07	Feet below surface:	247
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1993-10-07	Feet below surface:	247
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1991-11-11	Feet below surface:	242
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1991-11-11	Feet below surface:	242
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1991-08-14	Feet below surface:	238
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1991-08-14	Feet below surface:	238
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1991-05-01	Feet below surface:	238
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1991-05-01	Feet below surface:	238
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1990-11-01	Feet below surface:	235
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1990-11-01	Feet below surface:	235
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1990-08-09	Feet below surface:	238
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1990-08-09	Feet below surface:	238
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1989-12-01	Feet below surface:	210
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1989-12-01	Feet below surface:	210
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1989-07-31	Feet below surface:	235
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1989-07-31	Feet below surface:	235
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1989-05-09	Feet below surface:	230
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1989-05-09	Feet below surface:	230
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1988-08-24	Feet below surface:	230
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1988-08-24	Feet below surface:	230
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1988-06-17	Feet below surface:	228
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1988-06-17	Feet below surface:	228
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1988-05-15	Feet below surface:	223
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1988-05-15	Feet below surface:	223
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1987-06-16	Feet below surface:	225
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1987-06-16	Feet below surface:	225
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-12-16	Feet below surface:	234
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-12-16	Feet below surface:	234
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-02-10	Feet below surface:	246
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-02-10	Feet below surface:	246
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-12-20	Feet below surface:	240
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-12-20	Feet below surface:	240
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-06-25	Feet below surface:	265
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-06-25	Feet below surface:	265
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-12-28	Feet below surface:	258
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-12-28	Feet below surface:	258
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1983-04-22	Feet below surface:	245
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-04-22	Feet below surface:	245
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-02-08	Feet below surface:	262
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-02-08	Feet below surface:	262
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-12-07	Feet below surface:	245
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-12-07	Feet below surface:	245
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-10-25	Feet below surface:	306
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-10-25	Feet below surface:	306
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-08-23	Feet below surface:	288
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-08-23	Feet below surface:	288
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-07-20	Feet below surface:	255
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-07-20	Feet below surface:	255
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-20	Feet below surface:	304
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-20	Feet below surface:	304
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-01	Feet below surface:	300
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-01	Feet below surface:	300
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-15	Feet below surface:	276
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-15	Feet below surface:	276
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-01	Feet below surface:	276
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-01	Feet below surface:	276
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-15	Feet below surface:	277
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1981-03-15	Feet below surface:	277
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-02	Feet below surface:	277
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-02	Feet below surface:	277
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-15	Feet below surface:	277
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-15	Feet below surface:	277
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-02	Feet below surface:	306
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-02	Feet below surface:	306
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-01	Feet below surface:	308
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-01	Feet below surface:	308
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-15	Feet below surface:	310
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-15	Feet below surface:	310
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-13	Feet below surface:	282
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-13	Feet below surface:	282
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-17	Feet below surface:	304
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-17	Feet below surface:	304
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-15	Feet below surface:	278
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-15	Feet below surface:	278
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-12-15	Feet below surface:	282
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-12-15	Feet below surface:	282
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-18	Feet below surface:	308
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-18	Feet below surface:	308
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1979-07-15	Feet below surface:	306
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-07-15	Feet below surface:	306
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-01	Feet below surface:	242
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-01	Feet below surface:	242
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-01	Feet below surface:	284
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-01	Feet below surface:	284
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-10-15	Feet below surface:	283
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-10-15	Feet below surface:	283
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-05-23	Feet below surface:	282
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-05-23	Feet below surface:	282
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-04-19	Feet below surface:	282
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-04-19	Feet below surface:	282
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-05-08	Feet below surface:	277
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-05-08	Feet below surface:	277
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-04-05	Feet below surface:	288.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-04-05	Feet below surface:	288.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-03-06	Feet below surface:	293.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-03-06	Feet below surface:	293.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-02-07	Feet below surface:	286.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-02-07	Feet below surface:	286.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-01-10	Feet below surface:	287.2
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1974-01-10	Feet below surface:	287.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-12-06	Feet below surface:	288.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-12-06	Feet below surface:	288.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-11-07	Feet below surface:	290
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-11-07	Feet below surface:	290
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-04-06	Feet below surface:	270
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-04-06	Feet below surface:	270
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-12-12	Feet below surface:	283
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-12-12	Feet below surface:	283
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-12-27	Feet below surface:	282
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-12-27	Feet below surface:	282
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-04-07	Feet below surface:	282
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-04-07	Feet below surface:	282
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-11-05	Feet below surface:	285
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-11-05	Feet below surface:	285
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-05-02	Feet below surface:	281
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-05-02	Feet below surface:	281
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-01-08	Feet below surface:	287
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-01-08	Feet below surface:	287
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-11-27	Feet below surface:	287
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-11-27	Feet below surface:	287
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1967-05-10	Feet below surface:	280
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-05-10	Feet below surface:	280
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-01-05	Feet below surface:	286
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-01-05	Feet below surface:	286
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-04-10	Feet below surface:	280
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-04-10	Feet below surface:	280
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-12-15	Feet below surface:	284
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-12-15	Feet below surface:	284
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-04-01	Feet below surface:	288
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-04-01	Feet below surface:	288
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-11-25	Feet below surface:	283
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-11-25	Feet below surface:	283
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-04-08	Feet below surface:	280
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-04-08	Feet below surface:	280
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-11-29	Feet below surface:	285
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-11-29	Feet below surface:	285
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-04-18	Feet below surface:	273.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-04-18	Feet below surface:	273.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-03-31	Feet below surface:	242.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-03-31	Feet below surface:	242.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-08-09	Feet below surface:	263
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1956-08-09	Feet below surface:	263
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-03-30	Feet below surface:	243.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-03-30	Feet below surface:	243.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-03-17	Feet below surface:	234.80
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	1955-03-17	Feet below surface:	234.80
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	1954-04-08	Feet below surface:	227.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-04-08	Feet below surface:	227.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-04-20	Feet below surface:	223.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-04-20	Feet below surface:	223.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-04-11	Feet below surface:	223.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-04-11	Feet below surface:	223.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-11-29	Feet below surface:	230.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-11-29	Feet below surface:	230.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-11-26	Feet below surface:	230.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-11-26	Feet below surface:	230.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-04-11	Feet below surface:	216
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-04-11	Feet below surface:	216
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-04-05	Feet below surface:	216
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-04-05	Feet below surface:	216
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-11-12	Feet below surface:	227
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1951-11-12	Feet below surface:	227
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-11-06	Feet below surface:	226.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-11-06	Feet below surface:	226.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-04-08	Feet below surface:	211.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-04-08	Feet below surface:	211.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-11-03	Feet below surface:	226.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-11-03	Feet below surface:	226.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-10-03	Feet below surface:	226.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-10-03	Feet below surface:	226.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-04-04	Feet below surface:	300
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-04-04	Feet below surface:	300
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-03-29	Feet below surface:	200.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-03-29	Feet below surface:	200.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-10-03	Feet below surface:	224.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-10-03	Feet below surface:	224.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-10-01	Feet below surface:	224.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-10-01	Feet below surface:	224.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-04-06	Feet below surface:	200
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-04-06	Feet below surface:	200
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-10-12	Feet below surface:	222
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-10-12	Feet below surface:	222
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1947-12-05	Feet below surface:	210.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-12-05	Feet below surface:	210.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-04-05	Feet below surface:	190
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-04-05	Feet below surface:	190
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-04-03	Feet below surface:	184.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-04-03	Feet below surface:	184.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-11-05	Feet below surface:	198.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-11-05	Feet below surface:	198.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-04-03	Feet below surface:	178.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-04-03	Feet below surface:	178.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-11-09	Feet below surface:	194.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-11-09	Feet below surface:	194.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-04-05	Feet below surface:	172.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-04-05	Feet below surface:	172.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-04-01	Feet below surface:	168.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-04-01	Feet below surface:	168.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-04-04	Feet below surface:	162.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-04-04	Feet below surface:	162.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-10-03	Feet below surface:	175.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-10-03	Feet below surface:	175.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-04-03	Feet below surface:	165.2
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1941-04-03	Feet below surface:	165.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-04-03	Feet below surface:	162.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-04-03	Feet below surface:	162.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-10-04	Feet below surface:	170.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-10-04	Feet below surface:	170.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-04-04	Feet below surface:	162.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-04-04	Feet below surface:	162.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-04-02	Feet below surface:	161.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-04-02	Feet below surface:	161.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-10-12	Feet below surface:	170.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-10-12	Feet below surface:	170.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-10-04	Feet below surface:	172.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-10-04	Feet below surface:	172.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-04-03	Feet below surface:	159.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-04-03	Feet below surface:	159.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-10-12	Feet below surface:	169.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-10-12	Feet below surface:	169.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-04-01	Feet below surface:	157.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-04-01	Feet below surface:	157.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-10-10	Feet below surface:	165.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-10-10	Feet below surface:	165.2
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1935-04-10	Feet below surface:	158
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-04-10	Feet below surface:	158
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-10-13	Feet below surface:	169.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-10-13	Feet below surface:	169.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1933-11-01	Feet below surface:	162.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1933-11-01	Feet below surface:	162.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1933-04-12	Feet below surface:	156
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1933-04-12	Feet below surface:	156
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1932-10-10	Feet below surface:	167
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1932-10-10	Feet below surface:	167
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1932-04-13	Feet below surface:	154.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1932-04-13	Feet below surface:	154.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1932-03-09	Feet below surface:	156.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1932-03-09	Feet below surface:	156.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1932-02-10	Feet below surface:	157
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1932-02-10	Feet below surface:	157
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-11-09	Feet below surface:	162
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-11-09	Feet below surface:	162
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-05-07	Feet below surface:	157
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-05-07	Feet below surface:	157
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-04-04	Feet below surface:	155.6
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1931-04-04	Feet below surface:	155.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-03-06	Feet below surface:	156.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-03-06	Feet below surface:	156.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-02-07	Feet below surface:	157.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-02-07	Feet below surface:	157.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-01-09	Feet below surface:	159.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-01-09	Feet below surface:	159.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1930-04-30	Feet below surface:	153.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1930-04-30	Feet below surface:	153.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1930-04-09	Feet below surface:	153.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1930-04-09	Feet below surface:	153.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1930-02-18	Feet below surface:	156.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1930-02-18	Feet below surface:	156.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1929-12-01	Feet below surface:	161
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1929-12-01	Feet below surface:	161
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1929-04-19	Feet below surface:	151
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1929-04-19	Feet below surface:	151
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1929-02-08	Feet below surface:	154.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1929-02-08	Feet below surface:	154.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1929-01-07	Feet below surface:	156.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1929-01-07	Feet below surface:	156.7
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1928-12-06	Feet below surface:	159.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1928-12-06	Feet below surface:	159.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1928-11-02	Feet below surface:	164.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1928-11-02	Feet below surface:	164.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1928-10-06	Feet below surface:	173.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1928-10-06	Feet below surface:	173.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1928-09-29	Feet below surface:	178.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1928-09-29	Feet below surface:	178.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1928-04-25	Feet below surface:	147
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1928-04-25	Feet below surface:	147
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1928-02-03	Feet below surface:	148.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1928-02-03	Feet below surface:	148.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1927-12-31	Feet below surface:	151.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1927-12-31	Feet below surface:	151.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1927-10-07	Feet below surface:	164
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1927-10-07	Feet below surface:	164
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1927-05-01	Feet below surface:	140.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1927-05-01	Feet below surface:	140.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1927-04-02	Feet below surface:	141.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1927-04-02	Feet below surface:	141.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1927-03-01	Feet below surface:	143
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1927-03-01	Feet below surface:	143
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1927-01-31	Feet below surface:	144.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1927-01-31	Feet below surface:	144.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1926-12-03	Feet below surface:	147.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1926-12-03	Feet below surface:	147.6
Feet to sea level:	Not Reported	Note:	Not Reported

H34
North
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000021475**

Well ID:	3310017-009	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 11	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310017-009&store_num=		
GeoTracker Data:	Not Reported		

H35
North
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000015250**

Well ID:	02S02W14C001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	02S02W14C001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S02W14C001S&store_num=		
GeoTracker Data:	Not Reported		

H36
North
1/2 - 1 Mile
Higher

AQUIFLOW **66387**

Site ID:	083302496T
Groundwater Flow:	Not Reported
Shallow Water Depth:	168'
Deep Water Depth:	322'
Average Water Depth:	Not Reported
Date:	06/02/1994

I37
ENE
1/2 - 1 Mile
Lower

CA WELLS **2416**

Seq:	2416	Prim sta c:	02S/02W-14J02 S
Frds no:	3310017001	County:	33
District:	14	User id:	WAT
System no:	3310017	Water type:	G
Source nam:	WELL 01 - ABANDONED	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY

Latitude:	340000.0	Longitude:	1170300.0
Precision:	8	Status:	AB
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3310017	System nam:	South Mesa Wc
Hqname:	Not Reported	Address:	P O BOX 458
City:	CALIMESA	State:	CA
Zip:	92320	Zip ext:	Not Reported
Pop serv:	7200	Connection:	2539
Area serve:	SOUTH MESA-CALIMESA		

I38
ENE
1/2 - 1 Mile
Lower

CA WELLS 2412

Seq:	2412	Prim sta c:	02S/02W-14B01 S
Frds no:	3310017011	County:	33
District:	14	User id:	WAT
System no:	3310017	Water type:	G
Source nam:	WELL 14 - ABANDONED	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340000.0	Longitude:	1170300.0
Precision:	8	Status:	AB
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3310017	System nam:	South Mesa Wc
Hqname:	Not Reported	Address:	P O BOX 458
City:	CALIMESA	State:	CA
Zip:	92320	Zip ext:	Not Reported
Pop serv:	7200	Connection:	2539
Area serve:	SOUTH MESA-CALIMESA		

J39
NW
1/2 - 1 Mile
Lower

CA WELLS 2422

Seq:	2422	Prim sta c:	02S/02W-15A04 S
Frds no:	3310017008	County:	33
District:	14	User id:	WAT
System no:	3310017	Water type:	G
Source nam:	WELL 09	Station ty:	WELL/AMBNT
Latitude:	340012.0	Longitude:	1170403.0
Precision:	2	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3310017	System nam:	South Mesa Wc
Hqname:	Not Reported	Address:	P O BOX 458
City:	CALIMESA	State:	CA
Zip:	92320	Zip ext:	Not Reported
Pop serv:	7200	Connection:	2539

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Area serve: SOUTH MESA-CALIMESA

Sample date:	13-MAR-18	Finding:	6.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	13-MAR-18	Finding:	1.5
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	04-DEC-17	Finding:	4.1
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	04-DEC-17	Finding:	1.4
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	04-DEC-17	Finding:	6.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	12-SEP-17	Finding:	1.2
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	12-SEP-17	Finding:	7.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-JUN-17	Finding:	7.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-JUN-17	Finding:	1.2
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	03-MAR-17	Finding:	7.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-MAR-17	Finding:	1.2
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	01-DEC-16	Finding:	1.2
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	01-DEC-16	Finding:	6.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-SEP-16	Finding:	1.1
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	01-SEP-16	Finding:	4.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	01-JUN-16	Finding:	7.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-JUN-16	Finding:	1.2
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	11-APR-16	Finding:	21.67
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	11-APR-16	Finding:	7.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-APR-16	Finding:	550.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	11-APR-16	Finding:	7.7
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-APR-16	Finding:	200.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-16	Finding:	240.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-16	Finding:	7.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-APR-16	Finding:	190.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-16	Finding:	53.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-16	Finding:	14.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-16	Finding:	45.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-16	Finding:	1.7
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-16	Finding:	32.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-16	Finding:	16.
Chemical:	SULFATE	Report units:	MG/L

Dlr:	0.5		
Sample date:	11-APR-16	Finding:	1.2
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	11-APR-16	Finding:	8.8
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	11-APR-16	Finding:	350.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	11-APR-16	Finding:	1.1
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-APR-16	Finding:	0.51
Chemical:	LANGELIER INDEX AT SOURCE TEMP.	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-APR-16	Finding:	12.31
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	09-MAR-16	Finding:	1.1
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	28-DEC-15	Finding:	0.47
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-DEC-15	Finding:	0.502
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-DEC-15	Finding:	0.161
Chemical:	RADIUM 226 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-DEC-15	Finding:	0.2
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-DEC-15	Finding:	0.88
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-DEC-15	Finding:	2.1
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-DEC-15	Finding:	0.48
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-DEC-15	Finding:	2.
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	28-DEC-15	Finding:	4.8e-002
Chemical:	RADIUM 226	Report units:	PCI/L
Dlr:	1.		
Sample date:	01-DEC-15	Finding:	0.55
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-DEC-15	Finding:	1.2
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	01-DEC-15	Finding:	0.88
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-DEC-15	Finding:	2.6
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-DEC-15	Finding:	2.6
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-DEC-15	Finding:	3.7
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	05-OCT-15	Finding:	1.1
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	09-SEP-15	Finding:	1.2
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	03-AUG-15	Finding:	1.2
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	07-JUL-15	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-JUL-15	Finding:	1.1
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	11-JUN-15	Finding:	1.1
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	13-MAY-15	Finding:	1.2
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	06-APR-15	Finding:	1.1
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	10-MAR-15	Finding:	1.2
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L

Dlr:	0.1		
Sample date:	10-FEB-15	Finding:	1.1
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	12-JAN-15	Finding:	1.2
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	15-DEC-14	Finding:	1.2
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	08-DEC-14	Finding:	5.1
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	24-NOV-14	Finding:	2.
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	29-OCT-14	Finding:	1.4
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	08-SEP-14	Finding:	2.3
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	09-JUN-14	Finding:	2.3
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	11-MAR-14	Finding:	2.1
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	20-DEC-13	Finding:	1.8
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	09-SEP-13	Finding:	1.9
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	11-JUN-13	Finding:	2.1
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	03-APR-13	Finding:	190.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-13	Finding:	240.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-13	Finding:	180.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		

Sample date:	03-APR-13	Finding:	49.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-13	Finding:	14.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-13	Finding:	48.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-13	Finding:	1.5
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-13	Finding:	29.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-13	Finding:	21.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	03-APR-13	Finding:	1.5
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	03-APR-13	Finding:	8.2
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	03-APR-13	Finding:	310.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-13	Finding:	1.36
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-APR-13	Finding:	0.79
Chemical:	LANGELIER INDEX AT SOURCE TEMP.	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-APR-13	Finding:	0.3
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	03-APR-13	Finding:	12.58
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-APR-13	Finding:	4300.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-APR-13	Finding:	7.9
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-APR-13	Finding:	8.2
Chemical:	PH, FIELD	Report units:	Not Reported

Dlr:	0.		
Sample date:	03-APR-13	Finding:	550.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	03-APR-13	Finding:	22.778
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	18-MAR-13	Finding:	1.2
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	10-DEC-12	Finding:	1.2
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	19-SEP-12	Finding:	1.6
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	19-JUN-12	Finding:	2.
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	09-MAR-12	Finding:	1.9
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		

J40
NW
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000007590**

Well ID:	3310017-008	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 09	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310017-008&store_num=		
GeoTracker Data:	Not Reported		

K41
NW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000037654**

Well ID:	02S02W15A004S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	02S02W15A004S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S02W15A004S&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

K42
NW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000025830**

Well ID:	02S02W15A003S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	02S02W15A003S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S02W15A003S&store_num=		
GeoTracker Data:	Not Reported		

K43
NW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000021217**

Well ID:	02S02W15A002S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	02S02W15A002S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S02W15A002S&store_num=		
GeoTracker Data:	Not Reported		

J44
NW
1/2 - 1 Mile
Lower

FED USGS **USGS40000139717**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	002S002W15A003S	Type:	Well
Description:	ROCKWELL GPS FOR LAT/LONG., NAD27		
HUC:	18070203	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	California Coastal Basin aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

L45
SSE
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000011498**

Well ID:	02S02W23H001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	02S02W23H001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S02W23H001S&store_num=		
GeoTracker Data:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

L46
SE
1/2 - 1 Mile
Higher | **FED USGS** | **USGS40000139564**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	002S002W23H001S	Type:	Well
Description:	Not Reported	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19240206	Well Depth:	285
Well Depth Units:	ft	Well Hole Depth:	285
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	127	Level reading date:	1980-04-23
Feet below surface:	Not Reported	Feet to sea level:	2172
Note:	Not Reported		

Level reading date:	1979-04-24	Feet below surface:	Not Reported
Feet to sea level:	2170	Note:	Not Reported
Level reading date:	1978-11-16	Feet below surface:	Not Reported
Feet to sea level:	2165	Note:	Not Reported
Level reading date:	1978-04-14	Feet below surface:	Not Reported
Feet to sea level:	2170	Note:	Not Reported
Level reading date:	1977-09-23	Feet below surface:	Not Reported
Feet to sea level:	2164	Note:	Not Reported
Level reading date:	1977-04-28	Feet below surface:	Not Reported
Feet to sea level:	2163	Note:	Not Reported
Level reading date:	1976-11-03	Feet below surface:	Not Reported
Feet to sea level:	2165	Note:	Not Reported
Level reading date:	1976-04-21	Feet below surface:	Not Reported
Feet to sea level:	2162	Note:	Not Reported
Level reading date:	1975-10-30	Feet below surface:	Not Reported
Feet to sea level:	2162	Note:	Not Reported
Level reading date:	1975-04-16	Feet below surface:	Not Reported
Feet to sea level:	2168	Note:	Not Reported
Level reading date:	1974-10-25	Feet below surface:	Not Reported
Feet to sea level:	2164	Note:	Not Reported
Level reading date:	1974-04-24	Feet below surface:	Not Reported
Feet to sea level:	2167	Note:	Not Reported
Level reading date:	1973-11-07	Feet below surface:	Not Reported
Feet to sea level:	2162	Note:	Not Reported
Level reading date:	1973-04-19	Feet below surface:	Not Reported
Feet to sea level:	2171	Note:	Not Reported

Level reading date:	1972-10-26	Feet below surface:	Not Reported
Feet to sea level:	2162	Note:	Not Reported
Level reading date:	1972-04-26	Feet below surface:	Not Reported
Feet to sea level:	2166	Note:	Not Reported
Level reading date:	1971-10-15	Feet below surface:	Not Reported
Feet to sea level:	2165	Note:	Not Reported
Level reading date:	1971-04-13	Feet below surface:	Not Reported
Feet to sea level:	2172	Note:	Not Reported
Level reading date:	1970-10-15	Feet below surface:	Not Reported
Feet to sea level:	2169	Note:	Not Reported
Level reading date:	1970-04-13	Feet below surface:	Not Reported
Feet to sea level:	2177	Note:	Not Reported
Level reading date:	1969-11-13	Feet below surface:	Not Reported
Feet to sea level:	2170	Note:	Not Reported
Level reading date:	1969-04-14	Feet below surface:	Not Reported
Feet to sea level:	2175	Note:	Not Reported
Level reading date:	1968-11-19	Feet below surface:	Not Reported
Feet to sea level:	2171	Note:	Not Reported
Level reading date:	1968-04-09	Feet below surface:	Not Reported
Feet to sea level:	2177	Note:	Not Reported
Level reading date:	1967-11-16	Feet below surface:	Not Reported
Feet to sea level:	2172	Note:	Not Reported
Level reading date:	1967-05-10	Feet below surface:	210.74
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-04-06	Feet below surface:	Not Reported
Feet to sea level:	2178	Note:	Not Reported
Level reading date:	1966-11-21	Feet below surface:	Not Reported
Feet to sea level:	2174	Note:	Not Reported
Level reading date:	1966-04-21	Feet below surface:	Not Reported
Feet to sea level:	2176	Note:	Not Reported
Level reading date:	1965-11-18	Feet below surface:	Not Reported
Feet to sea level:	2175	Note:	Not Reported
Level reading date:	1965-04-23	Feet below surface:	Not Reported
Feet to sea level:	2179	Note:	Not Reported
Level reading date:	1965-03-19	Feet below surface:	Not Reported
Feet to sea level:	2179	Note:	Not Reported
Level reading date:	1964-11-23	Feet below surface:	Not Reported
Feet to sea level:	2177	Note:	Not Reported
Level reading date:	1964-10-09	Feet below surface:	Not Reported
Feet to sea level:	2177	Note:	Not Reported
Level reading date:	1964-04-07	Feet below surface:	Not Reported
Feet to sea level:	2182	Note:	Not Reported

Level reading date:	1963-04-27	Feet below surface:	Not Reported
Feet to sea level:	2180	Note:	Not Reported
Level reading date:	1949-04-05	Feet below surface:	Not Reported
Feet to sea level:	2160	Note:	Not Reported
Level reading date:	1948-10-05	Feet below surface:	Not Reported
Feet to sea level:	2183	Note:	Not Reported
Level reading date:	1948-07-05	Feet below surface:	Not Reported
Feet to sea level:	2209	Note:	Not Reported
Level reading date:	1948-04-15	Feet below surface:	Not Reported
Feet to sea level:	2212	Note:	Not Reported
Level reading date:	1947-07-03	Feet below surface:	Not Reported
Feet to sea level:	2214	Note:	Not Reported
Level reading date:	1947-04-08	Feet below surface:	Not Reported
Feet to sea level:	2213	Note:	Not Reported
Level reading date:	1946-10-05	Feet below surface:	Not Reported
Feet to sea level:	2214	Note:	Not Reported
Level reading date:	1946-07-11	Feet below surface:	Not Reported
Feet to sea level:	2213	Note:	Not Reported
Level reading date:	1946-01-07	Feet below surface:	Not Reported
Feet to sea level:	2215	Note:	Not Reported
Level reading date:	1945-10-11	Feet below surface:	Not Reported
Feet to sea level:	2215	Note:	Not Reported
Level reading date:	1945-04-04	Feet below surface:	Not Reported
Feet to sea level:	2216	Note:	Not Reported
Level reading date:	1945-01-03	Feet below surface:	Not Reported
Feet to sea level:	2215	Note:	Not Reported
Level reading date:	1944-10-03	Feet below surface:	Not Reported
Feet to sea level:	2215	Note:	Not Reported
Level reading date:	1944-04-08	Feet below surface:	Not Reported
Feet to sea level:	2216	Note:	Not Reported
Level reading date:	1944-01-08	Feet below surface:	Not Reported
Feet to sea level:	2215	Note:	Not Reported
Level reading date:	1943-04-03	Feet below surface:	Not Reported
Feet to sea level:	2216	Note:	Not Reported
Level reading date:	1943-01-05	Feet below surface:	Not Reported
Feet to sea level:	2214	Note:	Not Reported
Level reading date:	1942-10-02	Feet below surface:	Not Reported
Feet to sea level:	2213	Note:	Not Reported
Level reading date:	1942-01-06	Feet below surface:	Not Reported
Feet to sea level:	2216	Note:	Not Reported
Level reading date:	1941-10-04	Feet below surface:	Not Reported
Feet to sea level:	2216	Note:	Not Reported

Level reading date:	1941-01-04	Feet below surface:	Not Reported
Feet to sea level:	2216	Note:	Not Reported
Level reading date:	1940-10-02	Feet below surface:	Not Reported
Feet to sea level:	2215	Note:	Not Reported
Level reading date:	1940-04-02	Feet below surface:	Not Reported
Feet to sea level:	2216	Note:	Not Reported
Level reading date:	1940-01-05	Feet below surface:	Not Reported
Feet to sea level:	2211	Note:	Not Reported
Level reading date:	1939-10-05	Feet below surface:	Not Reported
Feet to sea level:	2212	Note:	Not Reported
Level reading date:	1939-07-03	Feet below surface:	Not Reported
Feet to sea level:	2214	Note:	Not Reported
Level reading date:	1939-04-05	Feet below surface:	Not Reported
Feet to sea level:	2214	Note:	Not Reported
Level reading date:	1939-01-03	Feet below surface:	Not Reported
Feet to sea level:	2213	Note:	Not Reported
Level reading date:	1938-04-03	Feet below surface:	Not Reported
Feet to sea level:	2211	Note:	Not Reported
Level reading date:	1938-01-10	Feet below surface:	Not Reported
Feet to sea level:	2204	Note:	Not Reported
Level reading date:	1936-01-06	Feet below surface:	Not Reported
Feet to sea level:	2207	Note:	Not Reported
Level reading date:	1935-10-15	Feet below surface:	Not Reported
Feet to sea level:	2205	Note:	Not Reported
Level reading date:	1935-04-13	Feet below surface:	Not Reported
Feet to sea level:	2208	Note:	Not Reported
Level reading date:	1935-01-18	Feet below surface:	Not Reported
Feet to sea level:	2207	Note:	Not Reported
Level reading date:	1933-12-19	Feet below surface:	Not Reported
Feet to sea level:	2208	Note:	Not Reported
Level reading date:	1933-12-07	Feet below surface:	Not Reported
Feet to sea level:	2207	Note:	Not Reported
Level reading date:	1933-05-12	Feet below surface:	Not Reported
Feet to sea level:	2209	Note:	Not Reported
Level reading date:	1933-04-11	Feet below surface:	Not Reported
Feet to sea level:	2209	Note:	Not Reported
Level reading date:	1933-02-08	Feet below surface:	Not Reported
Feet to sea level:	2209	Note:	Not Reported
Level reading date:	1933-01-06	Feet below surface:	Not Reported
Feet to sea level:	2209	Note:	Not Reported
Level reading date:	1932-12-06	Feet below surface:	Not Reported
Feet to sea level:	2208	Note:	Not Reported

Level reading date:	1932-10-11	Feet below surface:	Not Reported
Feet to sea level:	2208	Note:	Not Reported
Level reading date:	1932-06-06	Feet below surface:	Not Reported
Feet to sea level:	2210	Note:	Not Reported
Level reading date:	1932-05-10	Feet below surface:	Not Reported
Feet to sea level:	2211	Note:	Not Reported
Level reading date:	1932-03-07	Feet below surface:	Not Reported
Feet to sea level:	2211	Note:	Not Reported
Level reading date:	1932-02-11	Feet below surface:	Not Reported
Feet to sea level:	2210	Note:	Not Reported
Level reading date:	1932-01-05	Feet below surface:	Not Reported
Feet to sea level:	2210	Note:	Not Reported
Level reading date:	1931-12-07	Feet below surface:	Not Reported
Feet to sea level:	2210	Note:	Not Reported
Level reading date:	1931-11-09	Feet below surface:	Not Reported
Feet to sea level:	2210	Note:	Not Reported
Level reading date:	1931-10-08	Feet below surface:	Not Reported
Feet to sea level:	2207	Note:	Not Reported
Level reading date:	1931-06-08	Feet below surface:	Not Reported
Feet to sea level:	2212	Note:	Not Reported
Level reading date:	1931-05-06	Feet below surface:	Not Reported
Feet to sea level:	2213	Note:	Not Reported
Level reading date:	1931-03-05	Feet below surface:	Not Reported
Feet to sea level:	2213	Note:	Not Reported
Level reading date:	1931-02-09	Feet below surface:	Not Reported
Feet to sea level:	2212	Note:	Not Reported
Level reading date:	1931-01-06	Feet below surface:	Not Reported
Feet to sea level:	2213	Note:	Not Reported
Level reading date:	1930-12-02	Feet below surface:	Not Reported
Feet to sea level:	2213	Note:	Not Reported
Level reading date:	1930-11-05	Feet below surface:	Not Reported
Feet to sea level:	2213	Note:	Not Reported
Level reading date:	1930-07-08	Feet below surface:	Not Reported
Feet to sea level:	2215	Note:	Not Reported
Level reading date:	1930-04-08	Feet below surface:	Not Reported
Feet to sea level:	2216	Note:	Not Reported
Level reading date:	1930-03-19	Feet below surface:	Not Reported
Feet to sea level:	2215	Note:	Not Reported
Level reading date:	1930-03-03	Feet below surface:	Not Reported
Feet to sea level:	2215	Note:	Not Reported
Level reading date:	1930-02-04	Feet below surface:	Not Reported
Feet to sea level:	2215	Note:	Not Reported

Level reading date:	1930-01-04	Feet below surface:	Not Reported
Feet to sea level:	2215	Note:	Not Reported
Level reading date:	1929-12-06	Feet below surface:	Not Reported
Feet to sea level:	2216	Note:	Not Reported
Level reading date:	1929-04-19	Feet below surface:	Not Reported
Feet to sea level:	2220	Note:	Not Reported
Level reading date:	1929-04-09	Feet below surface:	Not Reported
Feet to sea level:	2221	Note:	Not Reported
Level reading date:	1929-03-04	Feet below surface:	Not Reported
Feet to sea level:	2221	Note:	Not Reported
Level reading date:	1929-02-04	Feet below surface:	Not Reported
Feet to sea level:	2222	Note:	Not Reported
Level reading date:	1929-01-17	Feet below surface:	Not Reported
Feet to sea level:	2222	Note:	Not Reported
Level reading date:	1929-01-03	Feet below surface:	Not Reported
Feet to sea level:	2222	Note:	Not Reported
Level reading date:	1928-12-19	Feet below surface:	Not Reported
Feet to sea level:	2222	Note:	Not Reported
Level reading date:	1928-12-04	Feet below surface:	Not Reported
Feet to sea level:	2222	Note:	Not Reported
Level reading date:	1928-11-15	Feet below surface:	Not Reported
Feet to sea level:	2222	Note:	Not Reported
Level reading date:	1928-11-01	Feet below surface:	Not Reported
Feet to sea level:	2222	Note:	Not Reported
Level reading date:	1928-10-16	Feet below surface:	Not Reported
Feet to sea level:	2222	Note:	Not Reported
Level reading date:	1928-05-16	Feet below surface:	Not Reported
Feet to sea level:	2228	Note:	Not Reported
Level reading date:	1928-03-17	Feet below surface:	Not Reported
Feet to sea level:	2228	Note:	Not Reported
Level reading date:	1928-03-02	Feet below surface:	Not Reported
Feet to sea level:	2230	Note:	Not Reported
Level reading date:	1928-02-03	Feet below surface:	Not Reported
Feet to sea level:	2230	Note:	Not Reported
Level reading date:	1928-01-10	Feet below surface:	Not Reported
Feet to sea level:	2223	Note:	Not Reported
Level reading date:	1927-12-05	Feet below surface:	Not Reported
Feet to sea level:	2230	Note:	Not Reported
Level reading date:	1927-11-19	Feet below surface:	Not Reported
Feet to sea level:	2229	Note:	Not Reported
Level reading date:	1927-11-02	Feet below surface:	Not Reported
Feet to sea level:	2229	Note:	Not Reported

Level reading date:	1927-07-02	Feet below surface:	Not Reported
Feet to sea level:	2233	Note:	Not Reported
Level reading date:	1927-03-18	Feet below surface:	Not Reported
Feet to sea level:	2235	Note:	Not Reported
Level reading date:	1927-02-22	Feet below surface:	Not Reported
Feet to sea level:	2235	Note:	Not Reported
Level reading date:	1927-02-01	Feet below surface:	Not Reported
Feet to sea level:	2234	Note:	Not Reported
Level reading date:	1927-01-28	Feet below surface:	Not Reported
Feet to sea level:	2234	Note:	Not Reported
Level reading date:	1927-01-23	Feet below surface:	Not Reported
Feet to sea level:	2234	Note:	Not Reported
Level reading date:	1926-12-11	Feet below surface:	Not Reported
Feet to sea level:	2234	Note:	Not Reported
Level reading date:	1925-05-16	Feet below surface:	Not Reported
Feet to sea level:	2237	Note:	Not Reported

M47
WNW
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000008165**

Well ID:	3310017-006	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 07	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310017-006&store_num=		
GeoTracker Data:	Not Reported		

M48
WNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000139699**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	002S002W15A004S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

49
South
1/2 - 1 Mile
Lower

FED USGS **USGS40000139528**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	002S002W23K001S	Type:	Well
Description:	Not Reported	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	152
Well Depth Units:	ft	Well Hole Depth:	152
Well Hole Depth Units:	ft		

N50
NNW
1/2 - 1 Mile
Lower

CA WELLS **CAUSGSN00013965**

Well ID:	USGS-340032117035001	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-340032117035001	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-340032117035001&store_num=		
GeoTracker Data:	Not Reported		

N51
NNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000139753**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	002S002W11M001S	Type:	Well
Description:	ROCKWELL GPS FOR LAT/LONG., NAD27		
HUC:	18070203	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	California Coastal Basin aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

52
WNW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000011372**

Well ID:	02S02W15B001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	02S02W15B001S	GAMA PFAS Testing:	Not Reported

Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S02W15B001S&store_num=
GeoTracker Data: Not Reported

N53
NNW
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000002259**

Well ID:	3310017-010	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 12	GAMA PFAS Testing:	Not Reported

Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310017-010&store_num=
GeoTracker Data: Not Reported

1G
North
1/2 - 1 Mile
Lower

AQUIFLOW **66387**

Site ID:	083302496T
Groundwater Flow:	Not Reported
Shallow Water Depth:	168’
Deep Water Depth:	322’
Average Water Depth:	Not Reported
Date:	06/02/1994

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
92320	4	0

Federal EPA Radon Zone for RIVERSIDE County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for RIVERSIDE COUNTY, CA

Number of sites tested: 12

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.117 pCi/L	100%	0%	0%
Living Area - 2nd Floor	0.450 pCi/L	100%	0%	0%
Basement	1.700 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

Groundwater Ambient Monitoring & Assessment Program
State Water Resources Control Board
Telephone: 916-341-5577
The GAMA Program is Californias comprehensive groundwater quality monitoring program. GAMA collects data by testing the untreated, raw water in different types of wells for naturally-occurring and man-made chemicals. The GAMA data includes Domestic, Monitoring and Municipal well types from the following sources, Department of Water Resources, Department of Heath Services, EDF, Agricultural Lands, Lawrence Livermore National Laboratory, Department of Pesticide Regulation, United States Geological Survey, Groundwater Ambient Monitoring and Assessment Program and Local Groundwater Projects.

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

California Oil and Gas Well Locations
Source: Dept of Conservation, Geologic Energy Management Division
Telephone: 916-323-1779
Oil and Gas well locations in the state.

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

PHYSICAL SETTING SOURCE RECORDS SEARCHED

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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APPENDIX D: QUALIFICATIONS

PARTNER

Education

Associates Degree of Language Arts, Olympia-Morata-Gymnasium (Germany)

Highlights

13 years in the due diligence industry conducting Phase I Environmental Site Assessments

Experience Summary

Ms. McCondichie has over 13 years of experience in the environmental industry. She has significant experience in due diligence assessments for a variety of property types and the needs and requirements of varied number of reporting standards, including ASTM standards, EPA's All Appropriate Inquiry (AAI), and customized client formats. Specifically, Ms. McCondichie has experience in environmental and air quality related fields and has conducted over 100 Phase I Environmental Site Assessment (ESA) projects.

In addition, Ms. McCondichie has performed and managed environmental site assessments on various industrial, commercial, institutional and residential properties. Assessments included limited and comprehensive surveys for asbestos, lead-based paint and lead-in-drinking-water analysis. She has also managed subsurface investigations to determine the presence of contamination in soil; prepared written reports in formats prescribed by various fiduciary institutions and performed peer reviews on environmental site assessments completed by other environmental firms.

Finally, Ms. McCondichie's diversity across residential and commercial environments is a major contribution in the Southwest region of the United States.

Education

Bachelor of Arts, Political Science, University of South Carolina

Training

Asbestos Hazard and Emergency Response Act (AHERA) Building Inspection for Asbestos
Mine Safety and Health Administration (MSHA) – Part 46 and Part 48 Certified
Hazardous Waste Operations and Emergency Response (HAZWOPER), 40-hour (with First Aid, CPR)

Highlights

Over 10 years of experience conducting Phase I and Phase II Environmental Site Assessments (ESAs)
Over 10 years conducting industrial hygiene assessments such as asbestos, lead, radon, and mold surveys

Experience Summary

Mr. Boyce serves as a Project Manager for Partner Engineering and Science, Inc. (Partner), overseeing and managing all aspects of multi-scope projects including Phase I ESAs in accordance with EPA's All Appropriate Inquiry (AAI), Property Condition Assessments (PCAs), Zoning Reports, Seismic Assessments, and Industrial Hygiene-related projects. Mr. Boyce also serves as a senior technical reviewer on environmental due diligence assessments, including Phase I and II ESAs, for a variety of Clients.

Mr. Boyce has significant experience in due diligence assessments for a variety of property types and the needs and requirements of varied number of reporting standards, including ASTM standards, EPA's All Appropriate Inquiry (AAI), and customized client formats. Specifically, Mr. Boyce has performed Phase I Environmental Site Assessments (ESAs), Geotechnical Evaluations, Environmental Transaction Screens, Phase II and III Subsurface Investigations, Regulatory Compliance Assessments, Asbestos Surveys, Lead-based Paint Surveys, Radon Studies, and Mold Assessments.

Environmental Assessments

Duties included performing site visits; gathering zoning, ownership, building permits, fire records, and groundwater well information; geology research; UST and leaking underground storage tank (LUST) file review; aerial photograph interpretation; Resource Conservation Recovery Act (RCRA), Water Quality Assurance Revolving Fund (WQARF), Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) database and city directory review; personal interviews; and preparation of technical reports.

Subsurface Investigations

Mr. Boyce has extensive experience in conducting Phase II Subsurface Investigations on industrial manufacturing facilities, gas stations, auto repair facilities, multi-family residential properties, shopping centers, and undeveloped land. Mr. Boyce has conducted soil and soil gas sampling, oversight of underground storage tank (UST) removals, drywell investigations, and soil and groundwater remediation activities (Former Industrial Plating Facilities/Former Military Airport).

Industrial Hygiene Surveys

Mr. Boyce has served as a Project Scientist/Project Manager on numerous Industrial Hygiene related projects. Projects included asbestos, microbial remediation, lead-based paint, and industrial hygiene (plating and paint mixing facilities) related projects, including sampling, report preparation, and senior review for numerous banking entities, municipalities, law firms, and a variety of commercial businesses throughout the United

States. In addition, Mr. Boyce has provided asbestos and microbial abatement oversight activities at private, commercial, and school facilities.

Geotechnical/Forensic
Mr. Boyce's field experience also includes logging and sampling geotechnical borings for civil engineering projects, and conducting floor measurement surveys for forensic-related studies. Duties included placing boring locations via GPS coordinates, logging borings, collection of soil samples, classifying soils in accordance with Unified Soil Classification System (USCS), and supervision and coordination of drilling and utility locating companies.

Project Experience

Various High Profile and Historic Hotel/Resort Properties, Various locations throughout the United States and Caribbean. Mr. Boyce has managed numerous multi-scope equity projects on high profile and historic hotel/resort properties, with scopes of work including Phase I ESAs, PCAs, Zoning Reports, Seismic Assessments, and Industrial Hygiene-related sampling.

Various High-Rise Commercial Properties, Various locations throughout the United States. Mr. Boyce has managed numerous multi-scope equity projects on high-rise properties, with scopes of work including Phase I ESAs, PCAs, Zoning Reports, Seismic Assessments, and Industrial Hygiene-related sampling.

Various Large-Scale Mining Operations, Various locations throughout the Western United States. Mr. Boyce has managed and conducted numerous multi-scope projects on large-scale coal, copper, and surface mining operations located throughout the western United States, with scopes of work including Phase I and Phase II ESAs, aboveground storage tank (AST) compliance, and asbestos (transite pipe) removal.

Department of Defense Cleanup, Mesa, Arizona. Mr. Boyce was subcontracted to provide general technical operation assistance and routine compliance sampling at a Thermally-Enhanced Soil Vapor Extraction pilot test for a former Air Force jet fueling compound and active Superfund Site.

Former Semi-Conductor Facility, Phoenix, Arizona. Mr. Boyce conducted numerous subsurface investigations at a former semiconductor facility and provided technical oversight during remedial activities and post-remedial clearance sampling.

UST Removal Oversight, Throughout Arizona. Mr. Boyce conducted numerous subsurface investigations and UST removals under the oversight of the Arizona Department of Environmental Quality at various locations throughout Arizona. Mr. Boyce provided technical oversight during remedial activities and post-remedial clearance sampling.

Contact

dboyce@partneresi.com

Education

B.S. in Biological Sciences, University of California Santa Barbara, Distinction in Major

Registrations

National Registry of Environmental Professionals: Registered Environmental Property Assessor (REPA)

Training

OSHA 40-Hour Health and Safety Training

Highlights

Over 16 years in the environmental and engineering consulting industry
Founding member of Partner Engineering and Science, Inc.
Executive Board Member of Partner Engineering and Science, Inc.

Experience Summary

Ms. Redlin has more than 16 years of experience in the environmental and engineering consulting industry. Her background in environmental science, in addition to her knowledge of current commercial real estate due diligence standards, allows her to offer the most efficient and cost-effective means of regulatory compliance. Ms. Redlin has extensive experience managing all aspects of due diligence, specializing in environmental due diligence, for nationwide and local clients such as:

- Residential Developers
- Commercial Developers
- Mortgage Brokers
- Real Estate Brokers
- Individual Property Owners and Buyers
- Financial Institutions including:
- Portfolio Lenders
- SBA Lenders
- HUD Lenders
- Fannie Mae Lenders
- Freddie Mac Lenders
- Private Equity Funds
- Insurance Lenders

Ms. Redlin has gained valuable knowledge and know-how from having been personally involved in the details of thousands of real estate transactions for various client types, and therefore understands the specific needs and scopes of work required for all parties involved in a transaction.

Ms. Redlin has served as an environmental scientist, project manager, or executive senior author on over 15,000 real estate transactions. Ms. Redlin's due diligence resume includes experience at all levels, advising lenders and real estate investors through the following product types:

- Phase I Environmental Site Assessments

- Phase II Subsurface Investigations
- Phase III Site Characterizations
- Remedial Cost Estimates
- Remediation Design and Implementation
- Environmental Transaction Screens
- Property Condition Assessments
- Probable Maximum Loss Assessments
- Property Condition Evaluations

Real estate investors, redevelopment agencies, financial institutions, insurance lenders, and real estate equity funds have come to rely on her advice and judgment to help them with their real estate business decisions. Ms. Redlin is a dedicated professional who takes pride and pleasure in meeting her client's needs and spearheading and assembling the team with the expertise to handle any issue that may come up during the transaction.

Project Experience

Ms. Redlin has extensive experience in testing soil, soil gas, and groundwater in the context of a real estate transaction, as well as under the supervision of state and federal regulators. Among her specialties is guiding landowners and prospective purchasers through the process of selling or acquiring an environmentally challenged site.

Ms. Redlin has participated in the characterization of groundwater and soil contamination; quarterly groundwater monitoring; implementation of various systems such as soil vapor extraction systems, dual phase extraction systems, ozone sparging, air sparging, pump and treat; and soil excavation projects such as tank removals at several clean-up sites in Los Angeles and Orange County.

Ms. Redlin also has extensive experience in environmental compliance monitoring and biological consulting. She has extensive experience working as an independent contractor for and in conjunction with state and local agencies such as Santa Barbara County Parks, California Department of Fish and Game, California Public Utilities Commission, Los Angeles Water and Sanitation and others. This included monitoring construction activities near sensitive biological receptors; containing, quantifying and reporting any hazardous material spills that occurred; working with construction crews to ensure compliance with environmental permit regulations as well as reporting to interested parties on the progress and compliance of the project.

Distinctions

Real Estate Forum- Woman of Influence 2012

Ms. Redlin was named by the Los Angeles Business Journal for Women Making a Difference in 2010.

Ms. Redlin has been designated a 2009 California Mortgage Bankers Association (CMBA) Future Leader.

Ms. Redlin was named Real Estate Southern California Woman of Influence in 2008 for her role in the area's commercial real estate transactions.

Ms. Redlin was one of only two consultants asked to sit on the Risk Managers Association (RMA) Credit Committee roundtable which discussed the effects of the new Federal All Appropriate Inquiries (AAI) standard on Phase I Environmental Site Assessments.

Ms. Redlin received an Industry Profile of Distinction in Brownfield Renewal.

Affiliations

Member, Environmental Bankers Association
Member, Mortgage Banker's Association
Member, All Star Group, Income Property Lending
Member, International Council of Shopping Centers

Speaking

Income Property Lending Conferences- Regular Presenter
Southern California Chief Appraiser Meetings- Regular Presenter
Environmental Bankers Association- Regular Presenter
Due Diligence 101 Webinar
Getting in Front of Due Diligence Issues Webinar
Bisnow Conference Series Moderator
GlobeStreet Thought Leader
Connect Apartments Conference – Speaker on Fannie, Freddie
Crittenden Conference – Speaker on Economics of Environmental Risk
First annual CLIC Conference Presenter

Publications

The Sale & Purchase of Non-Residential Properties

AB 1103: What Does It Mean for the Industry 2014

Update on the new Phase I ESA Standard (ASTM E1527-13)

What will AB 1103 mean for the commercial real estate industry?

Granite Distributor Sponsors Radon Granite Testing Project, Stone World, December 2008

Contact

jenny@partneresi.com

Appendix G-1
Hydrology Report

Hydrology Report

7TH Street Gas Station
APN: 411-210-024

Calimesa, CA 92320

July 11, 2021

PREPARED FOR:
Sandalwood Travel Center, LP
PO Box 1958
Corona, CA 92878
(951) 280-3833
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PREPARED BY:
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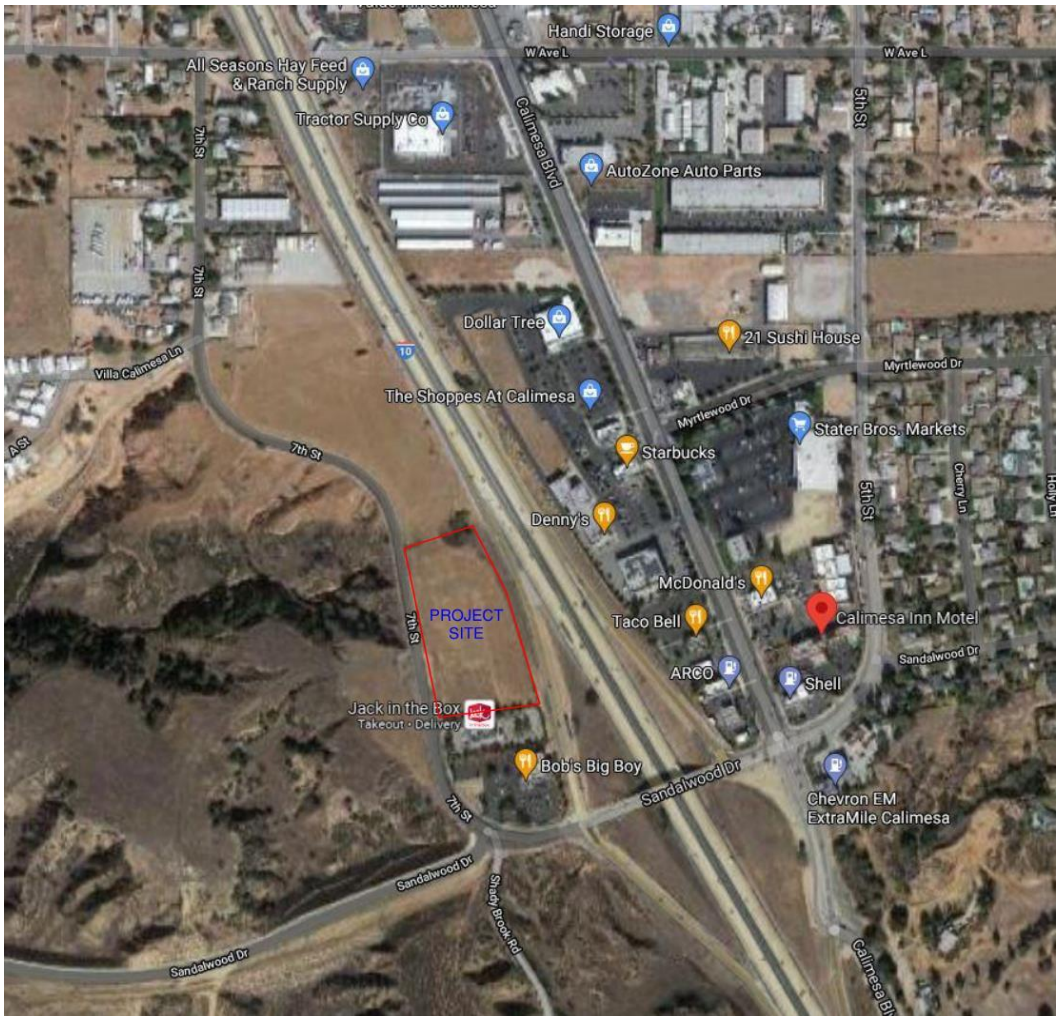
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I. PROJECT DESCRIPTION

The project site is located in the City of Calimesa on 7th Street. It is bounded by a fast food restaurant (Jack in the Box) in the south, 10 freeway in the east, an undeveloped land in the north, and 7th Street in the west. The proposed project is a commercial consisting of a gas station with a retail store with a parking lot. The entire site will be developed an it is approximately 3.79 acres.



II. EXISTING DRAINAGE

Current site condition is undeveloped covered with annual grass. Drainage is observed to be naturally flowing from the east to west portion of the site with an elevation difference of approximately 8 feet.

For hydrology calculation, Civil Design software was used to determine the flowrate (Q) and volume (V) of the existing condition. The entire site was analyzed as one tributary area, 1A. Below is summary of the results for the 2-yr, 10-yr, and 100-yr storm events. Printout of the results are attached in Appendix A.

See attached "Hydrology Map - Existing Condition" in Appendix B for more information.

Existing Condition:

Hydrology Data:
Area = 3.75 ac
Undeveloped (Poor Condition)
Tc = 18.97 min.
Soil Type = B

Existing Flowrate (Q) and Volume (V)		
Storm Event	Q (cfs)	V (cf)
2-yr	0.36	4,702
10-yr	1.06	14,506
100-yr	2.53	50,388

III. PROPOSED DRAINAGE

Drainage for the proposed condition consists of utilizing bioretentions. Runoff generated from the proposed development is directed towards the west and conveyed and treated through three bioretentions along the west property line. An underground 60-inch diameter CMP is added to mitigate the remaining runoff. Overflows from the underground detention basin is discharged into 7th Street through a parkway drain.

For hydrology calculation, Civil Design software was used to determine the flowrate (Q) and volume (V) of the proposed condition. The entire site was analyzed as one tributary area, 1A. Bioretentions are sized through interpolation based on area. Below is summary of the results for the 2-yr, 10-yr, and 100-yr storm events. Printout of the results are attached in Appendix A.

See attached "Hydrology Map - Proposed Condition" in Appendix B for more information.

Proposed Condition:

Hydrology Data:
Area = 3.75 ac
Commercial
Tc = 9.90 min.
Soil Type = B

Proposed Flowrate (Q) and Volume (V)		
Time Duration	Q (cfs)	V (cf)
2-yr	1.06	28,798
10-yr	1.73	45,620
100-yr	2.93	74,129

IV. HYDROLOGY DISCUSSION

The purpose of this hydrology study is to comply to determine, if any, the flowrate and volume required to be mitigated based on the increase from existing to proposed condition. To comply with the requirements, both existing and proposed condition were analyzed to ensure that flowrate for the proposed condition does not exceed the existing condition. To do so, any volume increase among the 2-yr, 10-yr, and 100-yr storm event will be mitigated through the bioretentions. Below is a summary of the results.

Flowrate (Q) and Volume (V) Comparison						
	Q (cfs)			V (cf)		
Storm Event	Existing	Proposed	Delta	Existing	Proposed	Delta
2-yr	0.36	1.06	0.70	4,702	28,798	24,096
10-yr	1.06	1.73	0.67	14,506	45,620	31,114
100-yr	2.53	2.93	0.54	50,388	74,129	23,741

Results above show the 10-yr storm with the biggest volume increase of 31,114 cf. To mitigate said volume, bioretentions and a 60-inch diameter underground detention basin is proposed. The underground system is a 60-inch diameter CMP that spans at 22 ft with a volume capacity of 21,598 cf. There are three proposed bioretentions with a total volume capacity of 9,866 cf. The combined volume capacity for the proposed development is 31,464 cf exceeding the 31,114 cf.

Bioretentions are proposed as storm water treatment required by Water Quality Management Plan (WQMP). See separate WQMP report for more information.

APPENDIX A
Hydrology Analyses

NOAA Atlas 14, Volume 6, Version 2
Location name: Calimesa, California, USA*
Latitude: 33.9936°, Longitude: -117.0606°
Elevation: 2375.78 ft**
* source: ESRI Maps
** source: USGS

POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Sarah Dietz, Sarah Heim, Lillian Hiner, Kazungu Maitaria, Deborah Martin, Sandra Pavlovic, Ishani Roy, Carl Trypaluk, Dale Unruh, Fenglin Yan, Michael Yekta, Tan Zhao, Geoffrey Bonnin, Daniel Brewer, Li-Chuan Chen, Tye Parzybok, John Yarchoan

NOAA, National Weather Service, Silver Spring, Maryland

PF_tabular | PF_graphical | Maps_&_aerials

PF tabular

PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches)[1]

Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	**0.111** (0.093-0.135)	**0.143** (0.119-0.174)	**0.187** (0.155-0.228)	**0.225** (0.185-0.276)	**0.280** (0.222-0.355)	**0.325** (0.253-0.422)	**0.374** (0.284-0.498)	**0.428** (0.316-0.587)	**0.509** (0.359-0.727)	**0.577** (0.393-0.855)
10-min	**0.160** (0.133-0.194)	**0.205** (0.171-0.249)	**0.268** (0.222-0.326)	**0.322** (0.265-0.396)	**0.401** (0.318-0.509)	**0.466** (0.362-0.605)	**0.536** (0.407-0.714)	**0.614** (0.452-0.841)	**0.729** (0.515-1.04)	**0.827** (0.564-1.23)
15-min	**0.193** (0.161-0.234)	**0.248** (0.206-0.301)	**0.324** (0.269-0.395)	**0.390** (0.320-0.478)	**0.485** (0.385-0.616)	**0.563** (0.438-0.731)	**0.648** (0.492-0.863)	**0.742** (0.547-1.02)	**0.882** (0.623-1.26)	**1.00** (0.682-1.48)
30-min	**0.287** (0.239-0.348)	**0.369** (0.307-0.448)	**0.482** (0.400-0.587)	**0.580** (0.477-0.712)	**0.721** (0.573-0.916)	**0.838** (0.652-1.09)	**0.965** (0.732-1.28)	**1.10** (0.814-1.51)	**1.31** (0.926-1.88)	**1.49** (1.01-2.21)
60-min	**0.418** (0.349-0.507)	**0.538** (0.447-0.653)	**0.703** (0.583-0.856)	**0.844** (0.695-1.04)	**1.05** (0.835-1.34)	**1.22** (0.949-1.59)	**1.41** (1.07-1.87)	**1.61** (1.19-2.21)	**1.91** (1.35-2.73)	**2.17** (1.48-3.21)
2-hr	**0.605** (0.504-0.734)	**0.769** (0.640-0.934)	**0.993** (0.824-1.21)	**1.18** (0.973-1.45)	**1.45** (1.16-1.85)	**1.67** (1.30-2.17)	**1.90** (1.44-2.54)	**2.15** (1.59-2.95)	**2.51** (1.78-3.59)	**2.81** (1.91-4.16)
3-hr	**0.753** (0.627-0.914)	**0.953** (0.793-1.16)	**1.23** (1.02-1.49)	**1.45** (1.20-1.79)	**1.78** (1.41-2.26)	**2.04** (1.58-2.64)	**2.31** (1.75-3.07)	**2.60** (1.92-3.56)	**3.01** (2.13-4.31)	**3.35** (2.28-4.96)
6-hr	**1.10** (0.913-1.33)	**1.38** (1.15-1.68)	**1.77** (1.47-2.16)	**2.09** (1.72-2.57)	**2.55** (2.02-3.23)	**2.90** (2.26-3.77)	**3.27** (2.48-4.36)	**3.66** (2.70-5.02)	**4.21** (2.97-6.02)	**4.65** (3.17-6.89)
12-hr	**1.49** (1.24-1.81)	**1.90** (1.58-2.30)	**2.44** (2.02-2.97)	**2.88** (2.37-3.54)	**3.50** (2.78-4.45)	**3.98** (3.10-5.17)	**4.48** (3.40-5.96)	**4.99** (3.68-6.84)	**5.71** (4.03-8.16)	**6.27** (4.27-9.29)
24-hr	**2.00** (1.77-2.30)	**2.58** (2.28-2.98)	**3.35** (2.95-3.88)	**3.98** (3.48-4.64)	**4.85** (4.11-5.85)	**5.53** (4.59-6.80)	**6.22** (5.04-7.83)	**6.94** (5.47-8.98)	**7.92** (6.00-10.7)	**8.69** (6.36-12.1)
2-day	**2.44** (2.16-2.81)	**3.21** (2.83-3.70)	**4.24** (3.74-4.90)	**5.10** (4.46-5.94)	**6.30** (5.34-7.59)	**7.25** (6.02-8.92)	**8.25** (6.68-10.4)	**9.30** (7.33-12.0)	**10.8** (8.15-14.5)	**11.9** (8.74-16.6)
3-day	**2.62** (2.32-3.02)	**3.49** (3.08-4.02)	**4.67** (4.12-5.41)	**5.69** (4.97-6.63)	**7.13** (6.04-8.59)	**8.30** (6.88-10.2)	**9.53** (7.72-12.0)	**10.9** (8.56-14.1)	**12.8** (9.66-17.2)	**14.3** (10.5-19.9)
4-day	**2.84** (2.51-3.27)	**3.80** (3.36-4.39)	**5.14** (4.53-5.94)	**6.28** (5.49-7.32)	**7.92** (6.71-9.54)	**9.25** (7.68-11.4)	**10.7** (8.65-13.4)	**12.2** (9.63-15.8)	**14.4** (10.9-19.4)	**16.2** (11.9-22.6)
7-day	**3.26** (2.88-3.75)	**4.37** (3.87-5.05)	**5.91** (5.22-6.84)	**7.23** (6.33-8.43)	**9.11** (7.71-11.0)	**10.6** (8.82-13.1)	**12.2** (9.92-15.4)	**14.0** (11.0-18.1)	**16.4** (12.4-22.2)	**18.5** (13.5-25.7)
10-day	**3.55** (3.14-4.09)	**4.77** (4.22-5.51)	**6.46** (5.70-7.47)	**7.89** (6.91-9.21)	**9.94** (8.42-12.0)	**11.6** (9.61-14.2)	**13.3** (10.8-16.8)	**15.2** (12.0-19.7)	**17.8** (13.5-24.0)	**20.0** (14.6-27.9)
20-day	**4.38** (3.88-5.05)	**5.93** (5.25-6.85)	**8.06** (7.11-9.32)	**9.86** (8.63-11.5)	**12.4** (10.5-15.0)	**14.5** (12.0-17.8)	**16.6** (13.5-20.9)	**18.9** (14.9-24.5)	**22.2** (16.8-29.9)	**24.8** (18.2-34.6)
30-day	**5.19** (4.60-5.99)	**7.05** (6.23-8.13)	**9.58** (8.45-11.1)	**11.7** (10.3-13.7)	**14.8** (12.5-17.8)	**17.2** (14.3-21.2)	**19.8** (16.0-24.9)	**22.5** (17.8-29.2)	**26.4** (20.0-35.6)	**29.5** (21.6-41.1)
45-day	**6.24** (5.52-7.19)	**8.45** (7.47-9.75)	**11.5** (10.1-13.3)	**14.0** (12.3-16.4)	**17.7** (15.0-21.3)	**20.6** (17.1-25.3)	**23.6** (19.1-29.7)	**26.9** (21.2-34.8)	**31.5** (23.8-42.4)	**35.2** (25.8-49.1)
60-day	**7.25** (6.42-8.36)	**9.78** (8.65-11.3)	**13.2** (11.7-15.3)	**16.2** (14.1-18.9)	**20.3** (17.2-24.5)	**23.6** (19.6-29.1)	**27.1** (22.0-34.2)	**30.9** (24.3-40.0)	**36.1** (27.4-48.7)	**40.4** (29.6-56.3)

[1] Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS).

Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values.

Please refer to NOAA Atlas 14 document for more information.

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PF graphical

EXISTING CONDITION

Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2018 Version 9.0
Rational Hydrology Study Date: 02/20/21 File:RATEX2YR.out

RATIONAL METHOD FOR EXISTING CONDITION - 2-YR STORM

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

Program License Serial Number 6497

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 2.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Calimesa] area used.
10 year storm 10 minute intensity = 2.440(In/Hr)
10 year storm 60 minute intensity = 0.910(In/Hr)
100 year storm 10 minute intensity = 3.620(In/Hr)
100 year storm 60 minute intensity = 1.350(In/Hr)

Storm event year = 2.0
Calculated rainfall intensity data:
1 hour intensity = 0.602(In/Hr)
Slope of intensity duration curve = 0.5500

```
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.000 to Point/Station        2.000
**** INITIAL AREA EVALUATION ****
_____________________________________________________________________________
Initial area flow distance =   664.000(Ft.)
Top (of initial area) elevation =  2394.250(Ft.)
Bottom (of initial area) elevation =  2389.270(Ft.)
Difference in elevation =     4.980(Ft.)
Slope =    0.00750  s(percent)=       0.75
TC = k(0.530)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =   18.973 min.
Rainfall intensity =      1.135(In/Hr) for a     2.0 year storm
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.676
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  78.00
Pervious area fraction =  1.000; Impervious fraction =  0.000
Initial subarea runoff =      2.877(CFS)
Total initial stream area =        3.750(Ac.)
Pervious area fraction = 1.000
End of computations, total study area =            3.75 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 1.000
Area averaged RI index number =  78.0
```

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2018, Version 9.0
Study date 02/22/21 File: UHYDEX2242.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6497

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

UNIT HYDROGRAPH FOR EXISTING CONDITION - 2 YR STORM

Drainage Area = 3.75(Ac.) = 0.006 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 3.75(Ac.) = 0.006 Sq. Mi.
USER Entry of lag time in hours
Lag time = 0.320 Hr.
Lag time = 19.20 Min.
25% of lag time = 4.80 Min.
40% of lag time = 7.68 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
3.75	2.58	9.68

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
3.75	6.22	23.32

STORM EVENT (YEAR) = 2.00
Area Averaged 2-Year Rainfall = 2.580(In)
Area Averaged 100-Year Rainfall = 6.220(In)

Point rain (area averaged) = 2.580(In)
Areal adjustment factor = 100.00 %
Adjusted average point rain = 2.580(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
3.750	78.00	0.000

Total Area Entered = 3.75(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
78.0	78.0	0.268	0.000	0.268	1.000	0.268
					Sum (F) =	0.268

Area averaged mean soil loss (F) (In/Hr) = 0.268
Minimum soil loss rate ((In/Hr)) = 0.134
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	26.042	2.416	0.091
2	0.167	52.083	8.222	0.311
3	0.250	78.125	14.653	0.554
4	0.333	104.167	18.270	0.690
5	0.417	130.208	14.927	0.564
6	0.500	156.250	9.045	0.342
7	0.583	182.292	5.717	0.216
8	0.667	208.333	4.019	0.152
9	0.750	234.375	3.260	0.123
10	0.833	260.417	2.686	0.102
11	0.917	286.458	2.308	0.087
12	1.000	312.500	1.904	0.072
13	1.083	338.542	1.605	0.061
14	1.167	364.583	1.497	0.057
15	1.250	390.625	1.186	0.045
16	1.333	416.667	1.082	0.041
17	1.417	442.708	0.854	0.032
18	1.500	468.750	0.820	0.031
19	1.583	494.792	0.783	0.030
20	1.667	520.833	0.715	0.027
21	1.750	546.875	0.577	0.022
22	1.833	572.917	0.533	0.020
23	1.917	598.958	0.469	0.018
24	2.000	625.000	0.421	0.016
25	2.083	651.042	0.365	0.014
26	2.167	677.083	0.308	0.012
27	2.250	703.125	0.260	0.010
28	2.333	729.167	0.260	0.010
29	2.417	755.208	0.260	0.010
30	2.500	781.250	0.260	0.010
31	2.583	807.292	0.318	0.012
			Sum = 100.000	Sum= 3.779

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)

1	0.08	0.07	0.021	(0.474)	0.019	0.002
2	0.17	0.07	0.021	(0.473)	0.019	0.002
3	0.25	0.07	0.021	(0.471)	0.019	0.002
4	0.33	0.10	0.031	(0.469)	0.028	0.003
5	0.42	0.10	0.031	(0.467)	0.028	0.003
6	0.50	0.10	0.031	(0.465)	0.028	0.003
7	0.58	0.10	0.031	(0.463)	0.028	0.003
8	0.67	0.10	0.031	(0.462)	0.028	0.003
9	0.75	0.10	0.031	(0.460)	0.028	0.003
10	0.83	0.13	0.041	(0.458)	0.037	0.004
11	0.92	0.13	0.041	(0.456)	0.037	0.004
12	1.00	0.13	0.041	(0.454)	0.037	0.004
13	1.08	0.10	0.031	(0.453)	0.028	0.003
14	1.17	0.10	0.031	(0.451)	0.028	0.003
15	1.25	0.10	0.031	(0.449)	0.028	0.003
16	1.33	0.10	0.031	(0.447)	0.028	0.003
17	1.42	0.10	0.031	(0.445)	0.028	0.003
18	1.50	0.10	0.031	(0.444)	0.028	0.003
19	1.58	0.10	0.031	(0.442)	0.028	0.003
20	1.67	0.10	0.031	(0.440)	0.028	0.003
21	1.75	0.10	0.031	(0.438)	0.028	0.003
22	1.83	0.13	0.041	(0.437)	0.037	0.004
23	1.92	0.13	0.041	(0.435)	0.037	0.004
24	2.00	0.13	0.041	(0.433)	0.037	0.004
25	2.08	0.13	0.041	(0.431)	0.037	0.004
26	2.17	0.13	0.041	(0.430)	0.037	0.004
27	2.25	0.13	0.041	(0.428)	0.037	0.004
28	2.33	0.13	0.041	(0.426)	0.037	0.004
29	2.42	0.13	0.041	(0.424)	0.037	0.004
30	2.50	0.13	0.041	(0.423)	0.037	0.004
31	2.58	0.17	0.052	(0.421)	0.046	0.005
32	2.67	0.17	0.052	(0.419)	0.046	0.005
33	2.75	0.17	0.052	(0.417)	0.046	0.005
34	2.83	0.17	0.052	(0.416)	0.046	0.005
35	2.92	0.17	0.052	(0.414)	0.046	0.005
36	3.00	0.17	0.052	(0.412)	0.046	0.005
37	3.08	0.17	0.052	(0.411)	0.046	0.005
38	3.17	0.17	0.052	(0.409)	0.046	0.005
39	3.25	0.17	0.052	(0.407)	0.046	0.005
40	3.33	0.17	0.052	(0.405)	0.046	0.005
41	3.42	0.17	0.052	(0.404)	0.046	0.005
42	3.50	0.17	0.052	(0.402)	0.046	0.005
43	3.58	0.17	0.052	(0.400)	0.046	0.005
44	3.67	0.17	0.052	(0.399)	0.046	0.005
45	3.75	0.17	0.052	(0.397)	0.046	0.005
46	3.83	0.20	0.062	(0.395)	0.056	0.006
47	3.92	0.20	0.062	(0.394)	0.056	0.006
48	4.00	0.20	0.062	(0.392)	0.056	0.006
49	4.08	0.20	0.062	(0.390)	0.056	0.006
50	4.17	0.20	0.062	(0.389)	0.056	0.006
51	4.25	0.20	0.062	(0.387)	0.056	0.006
52	4.33	0.23	0.072	(0.385)	0.065	0.007
53	4.42	0.23	0.072	(0.384)	0.065	0.007
54	4.50	0.23	0.072	(0.382)	0.065	0.007
55	4.58	0.23	0.072	(0.381)	0.065	0.007
56	4.67	0.23	0.072	(0.379)	0.065	0.007
57	4.75	0.23	0.072	(0.377)	0.065	0.007
58	4.83	0.27	0.083	(0.376)	0.074	0.008
59	4.92	0.27	0.083	(0.374)	0.074	0.008
60	5.00	0.27	0.083	(0.372)	0.074	0.008
61	5.08	0.20	0.062	(0.371)	0.056	0.006
62	5.17	0.20	0.062	(0.369)	0.056	0.006
63	5.25	0.20	0.062	(0.368)	0.056	0.006

64	5.33	0.23	0.072	(0.366)	0.065	0.007
65	5.42	0.23	0.072	(0.364)	0.065	0.007
66	5.50	0.23	0.072	(0.363)	0.065	0.007
67	5.58	0.27	0.083	(0.361)	0.074	0.008
68	5.67	0.27	0.083	(0.360)	0.074	0.008
69	5.75	0.27	0.083	(0.358)	0.074	0.008
70	5.83	0.27	0.083	(0.356)	0.074	0.008
71	5.92	0.27	0.083	(0.355)	0.074	0.008
72	6.00	0.27	0.083	(0.353)	0.074	0.008
73	6.08	0.30	0.093	(0.352)	0.084	0.009
74	6.17	0.30	0.093	(0.350)	0.084	0.009
75	6.25	0.30	0.093	(0.349)	0.084	0.009
76	6.33	0.30	0.093	(0.347)	0.084	0.009
77	6.42	0.30	0.093	(0.345)	0.084	0.009
78	6.50	0.30	0.093	(0.344)	0.084	0.009
79	6.58	0.33	0.103	(0.342)	0.093	0.010
80	6.67	0.33	0.103	(0.341)	0.093	0.010
81	6.75	0.33	0.103	(0.339)	0.093	0.010
82	6.83	0.33	0.103	(0.338)	0.093	0.010
83	6.92	0.33	0.103	(0.336)	0.093	0.010
84	7.00	0.33	0.103	(0.335)	0.093	0.010
85	7.08	0.33	0.103	(0.333)	0.093	0.010
86	7.17	0.33	0.103	(0.332)	0.093	0.010
87	7.25	0.33	0.103	(0.330)	0.093	0.010
88	7.33	0.37	0.114	(0.329)	0.102	0.011
89	7.42	0.37	0.114	(0.327)	0.102	0.011
90	7.50	0.37	0.114	(0.326)	0.102	0.011
91	7.58	0.40	0.124	(0.324)	0.111	0.012
92	7.67	0.40	0.124	(0.323)	0.111	0.012
93	7.75	0.40	0.124	(0.321)	0.111	0.012
94	7.83	0.43	0.134	(0.320)	0.121	0.013
95	7.92	0.43	0.134	(0.318)	0.121	0.013
96	8.00	0.43	0.134	(0.317)	0.121	0.013
97	8.08	0.50	0.155	(0.315)	0.139	0.015
98	8.17	0.50	0.155	(0.314)	0.139	0.015
99	8.25	0.50	0.155	(0.312)	0.139	0.015
100	8.33	0.50	0.155	(0.311)	0.139	0.015
101	8.42	0.50	0.155	(0.309)	0.139	0.015
102	8.50	0.50	0.155	(0.308)	0.139	0.015
103	8.58	0.53	0.165	(0.306)	0.149	0.017
104	8.67	0.53	0.165	(0.305)	0.149	0.017
105	8.75	0.53	0.165	(0.304)	0.149	0.017
106	8.83	0.57	0.175	(0.302)	0.158	0.018
107	8.92	0.57	0.175	(0.301)	0.158	0.018
108	9.00	0.57	0.175	(0.299)	0.158	0.018
109	9.08	0.63	0.196	(0.298)	0.176	0.020
110	9.17	0.63	0.196	(0.296)	0.176	0.020
111	9.25	0.63	0.196	(0.295)	0.176	0.020
112	9.33	0.67	0.206	(0.294)	0.186	0.021
113	9.42	0.67	0.206	(0.292)	0.186	0.021
114	9.50	0.67	0.206	(0.291)	0.186	0.021
115	9.58	0.70	0.217	(0.289)	0.195	0.022
116	9.67	0.70	0.217	(0.288)	0.195	0.022
117	9.75	0.70	0.217	(0.287)	0.195	0.022
118	9.83	0.73	0.227	(0.285)	0.204	0.023
119	9.92	0.73	0.227	(0.284)	0.204	0.023
120	10.00	0.73	0.227	(0.283)	0.204	0.023
121	10.08	0.50	0.155	(0.281)	0.139	0.015
122	10.17	0.50	0.155	(0.280)	0.139	0.015
123	10.25	0.50	0.155	(0.278)	0.139	0.015
124	10.33	0.50	0.155	(0.277)	0.139	0.015
125	10.42	0.50	0.155	(0.276)	0.139	0.015
126	10.50	0.50	0.155	(0.274)	0.139	0.015

127	10.58	0.67	0.206	(0.273)	0.186	0.021
128	10.67	0.67	0.206	(0.272)	0.186	0.021
129	10.75	0.67	0.206	(0.270)	0.186	0.021
130	10.83	0.67	0.206	(0.269)	0.186	0.021
131	10.92	0.67	0.206	(0.268)	0.186	0.021
132	11.00	0.67	0.206	(0.266)	0.186	0.021
133	11.08	0.63	0.196	(0.265)	0.176	0.020
134	11.17	0.63	0.196	(0.264)	0.176	0.020
135	11.25	0.63	0.196	(0.263)	0.176	0.020
136	11.33	0.63	0.196	(0.261)	0.176	0.020
137	11.42	0.63	0.196	(0.260)	0.176	0.020
138	11.50	0.63	0.196	(0.259)	0.176	0.020
139	11.58	0.57	0.175	(0.257)	0.158	0.018
140	11.67	0.57	0.175	(0.256)	0.158	0.018
141	11.75	0.57	0.175	(0.255)	0.158	0.018
142	11.83	0.60	0.186	(0.254)	0.167	0.019
143	11.92	0.60	0.186	(0.252)	0.167	0.019
144	12.00	0.60	0.186	(0.251)	0.167	0.019
145	12.08	0.83	0.258	(0.250)	0.232	0.026
146	12.17	0.83	0.258	(0.249)	0.232	0.026
147	12.25	0.83	0.258	(0.247)	0.232	0.026
148	12.33	0.87	0.268	(0.246)	0.241	0.027
149	12.42	0.87	0.268	(0.245)	0.241	0.027
150	12.50	0.87	0.268	(0.244)	0.241	0.027
151	12.58	0.93	0.289	0.242	(0.260)	0.047
152	12.67	0.93	0.289	0.241	(0.260)	0.048
153	12.75	0.93	0.289	0.240	(0.260)	0.049
154	12.83	0.97	0.299	0.239	(0.269)	0.061
155	12.92	0.97	0.299	0.238	(0.269)	0.062
156	13.00	0.97	0.299	0.236	(0.269)	0.063
157	13.08	1.13	0.351	0.235	(0.316)	0.116
158	13.17	1.13	0.351	0.234	(0.316)	0.117
159	13.25	1.13	0.351	0.233	(0.316)	0.118
160	13.33	1.13	0.351	0.232	(0.316)	0.119
161	13.42	1.13	0.351	0.230	(0.316)	0.121
162	13.50	1.13	0.351	0.229	(0.316)	0.122
163	13.58	0.77	0.237	(0.228)	0.214	0.024
164	13.67	0.77	0.237	(0.227)	0.214	0.024
165	13.75	0.77	0.237	(0.226)	0.214	0.024
166	13.83	0.77	0.237	(0.225)	0.214	0.024
167	13.92	0.77	0.237	(0.223)	0.214	0.024
168	14.00	0.77	0.237	(0.222)	0.214	0.024
169	14.08	0.90	0.279	0.221	(0.251)	0.057
170	14.17	0.90	0.279	0.220	(0.251)	0.059
171	14.25	0.90	0.279	0.219	(0.251)	0.060
172	14.33	0.87	0.268	0.218	(0.241)	0.051
173	14.42	0.87	0.268	0.217	(0.241)	0.052
174	14.50	0.87	0.268	0.216	(0.241)	0.053
175	14.58	0.87	0.268	0.214	(0.241)	0.054
176	14.67	0.87	0.268	0.213	(0.241)	0.055
177	14.75	0.87	0.268	0.212	(0.241)	0.056
178	14.83	0.83	0.258	0.211	(0.232)	0.047
179	14.92	0.83	0.258	0.210	(0.232)	0.048
180	15.00	0.83	0.258	0.209	(0.232)	0.049
181	15.08	0.80	0.248	0.208	(0.223)	0.040
182	15.17	0.80	0.248	0.207	(0.223)	0.041
183	15.25	0.80	0.248	0.206	(0.223)	0.042
184	15.33	0.77	0.237	0.205	(0.214)	0.033
185	15.42	0.77	0.237	0.204	(0.214)	0.034
186	15.50	0.77	0.237	0.203	(0.214)	0.035
187	15.58	0.63	0.196	(0.202)	0.176	0.020
188	15.67	0.63	0.196	(0.201)	0.176	0.020
189	15.75	0.63	0.196	(0.200)	0.176	0.020

190	15.83	0.63	0.196	(0.199)	0.176	0.020
191	15.92	0.63	0.196	(0.198)	0.176	0.020
192	16.00	0.63	0.196	(0.197)	0.176	0.020
193	16.08	0.13	0.041	(0.196)	0.037	0.004
194	16.17	0.13	0.041	(0.195)	0.037	0.004
195	16.25	0.13	0.041	(0.194)	0.037	0.004
196	16.33	0.13	0.041	(0.193)	0.037	0.004
197	16.42	0.13	0.041	(0.192)	0.037	0.004
198	16.50	0.13	0.041	(0.191)	0.037	0.004
199	16.58	0.10	0.031	(0.190)	0.028	0.003
200	16.67	0.10	0.031	(0.189)	0.028	0.003
201	16.75	0.10	0.031	(0.188)	0.028	0.003
202	16.83	0.10	0.031	(0.187)	0.028	0.003
203	16.92	0.10	0.031	(0.186)	0.028	0.003
204	17.00	0.10	0.031	(0.185)	0.028	0.003
205	17.08	0.17	0.052	(0.184)	0.046	0.005
206	17.17	0.17	0.052	(0.183)	0.046	0.005
207	17.25	0.17	0.052	(0.182)	0.046	0.005
208	17.33	0.17	0.052	(0.181)	0.046	0.005
209	17.42	0.17	0.052	(0.180)	0.046	0.005
210	17.50	0.17	0.052	(0.179)	0.046	0.005
211	17.58	0.17	0.052	(0.178)	0.046	0.005
212	17.67	0.17	0.052	(0.178)	0.046	0.005
213	17.75	0.17	0.052	(0.177)	0.046	0.005
214	17.83	0.13	0.041	(0.176)	0.037	0.004
215	17.92	0.13	0.041	(0.175)	0.037	0.004
216	18.00	0.13	0.041	(0.174)	0.037	0.004
217	18.08	0.13	0.041	(0.173)	0.037	0.004
218	18.17	0.13	0.041	(0.172)	0.037	0.004
219	18.25	0.13	0.041	(0.172)	0.037	0.004
220	18.33	0.13	0.041	(0.171)	0.037	0.004
221	18.42	0.13	0.041	(0.170)	0.037	0.004
222	18.50	0.13	0.041	(0.169)	0.037	0.004
223	18.58	0.10	0.031	(0.168)	0.028	0.003
224	18.67	0.10	0.031	(0.167)	0.028	0.003
225	18.75	0.10	0.031	(0.167)	0.028	0.003
226	18.83	0.07	0.021	(0.166)	0.019	0.002
227	18.92	0.07	0.021	(0.165)	0.019	0.002
228	19.00	0.07	0.021	(0.164)	0.019	0.002
229	19.08	0.10	0.031	(0.163)	0.028	0.003
230	19.17	0.10	0.031	(0.163)	0.028	0.003
231	19.25	0.10	0.031	(0.162)	0.028	0.003
232	19.33	0.13	0.041	(0.161)	0.037	0.004
233	19.42	0.13	0.041	(0.160)	0.037	0.004
234	19.50	0.13	0.041	(0.160)	0.037	0.004
235	19.58	0.10	0.031	(0.159)	0.028	0.003
236	19.67	0.10	0.031	(0.158)	0.028	0.003
237	19.75	0.10	0.031	(0.157)	0.028	0.003
238	19.83	0.07	0.021	(0.157)	0.019	0.002
239	19.92	0.07	0.021	(0.156)	0.019	0.002
240	20.00	0.07	0.021	(0.155)	0.019	0.002
241	20.08	0.10	0.031	(0.155)	0.028	0.003
242	20.17	0.10	0.031	(0.154)	0.028	0.003
243	20.25	0.10	0.031	(0.153)	0.028	0.003
244	20.33	0.10	0.031	(0.153)	0.028	0.003
245	20.42	0.10	0.031	(0.152)	0.028	0.003
246	20.50	0.10	0.031	(0.151)	0.028	0.003
247	20.58	0.10	0.031	(0.151)	0.028	0.003
248	20.67	0.10	0.031	(0.150)	0.028	0.003
249	20.75	0.10	0.031	(0.150)	0.028	0.003
250	20.83	0.07	0.021	(0.149)	0.019	0.002
251	20.92	0.07	0.021	(0.148)	0.019	0.002
252	21.00	0.07	0.021	(0.148)	0.019	0.002

253	21.08	0.10	0.031	(0.147)	0.028	0.003
254	21.17	0.10	0.031	(0.147)	0.028	0.003
255	21.25	0.10	0.031	(0.146)	0.028	0.003
256	21.33	0.07	0.021	(0.145)	0.019	0.002
257	21.42	0.07	0.021	(0.145)	0.019	0.002
258	21.50	0.07	0.021	(0.144)	0.019	0.002
259	21.58	0.10	0.031	(0.144)	0.028	0.003
260	21.67	0.10	0.031	(0.143)	0.028	0.003
261	21.75	0.10	0.031	(0.143)	0.028	0.003
262	21.83	0.07	0.021	(0.142)	0.019	0.002
263	21.92	0.07	0.021	(0.142)	0.019	0.002
264	22.00	0.07	0.021	(0.141)	0.019	0.002
265	22.08	0.10	0.031	(0.141)	0.028	0.003
266	22.17	0.10	0.031	(0.140)	0.028	0.003
267	22.25	0.10	0.031	(0.140)	0.028	0.003
268	22.33	0.07	0.021	(0.139)	0.019	0.002
269	22.42	0.07	0.021	(0.139)	0.019	0.002
270	22.50	0.07	0.021	(0.139)	0.019	0.002
271	22.58	0.07	0.021	(0.138)	0.019	0.002
272	22.67	0.07	0.021	(0.138)	0.019	0.002
273	22.75	0.07	0.021	(0.137)	0.019	0.002
274	22.83	0.07	0.021	(0.137)	0.019	0.002
275	22.92	0.07	0.021	(0.137)	0.019	0.002
276	23.00	0.07	0.021	(0.136)	0.019	0.002
277	23.08	0.07	0.021	(0.136)	0.019	0.002
278	23.17	0.07	0.021	(0.136)	0.019	0.002
279	23.25	0.07	0.021	(0.136)	0.019	0.002
280	23.33	0.07	0.021	(0.135)	0.019	0.002
281	23.42	0.07	0.021	(0.135)	0.019	0.002
282	23.50	0.07	0.021	(0.135)	0.019	0.002
283	23.58	0.07	0.021	(0.135)	0.019	0.002
284	23.67	0.07	0.021	(0.134)	0.019	0.002
285	23.75	0.07	0.021	(0.134)	0.019	0.002
286	23.83	0.07	0.021	(0.134)	0.019	0.002
287	23.92	0.07	0.021	(0.134)	0.019	0.002
288	24.00	0.07	0.021	(0.134)	0.019	0.002

(Loss Rate Not Used)

Sum = 100.0 Sum = 4.1

Flood volume = Effective rainfall 0.35(In)
times area 3.8(Ac.)/[(In)/(Ft.)] = 0.1(Ac.Ft)
Total soil loss = 2.23(In)
Total soil loss = 0.698(Ac.Ft)
Total rainfall = 2.58(In)
Flood volume = 4702.5 Cubic Feet
Total soil loss = 30417.5 Cubic Feet

Peak flow rate of this hydrograph = 0.364(CFS)

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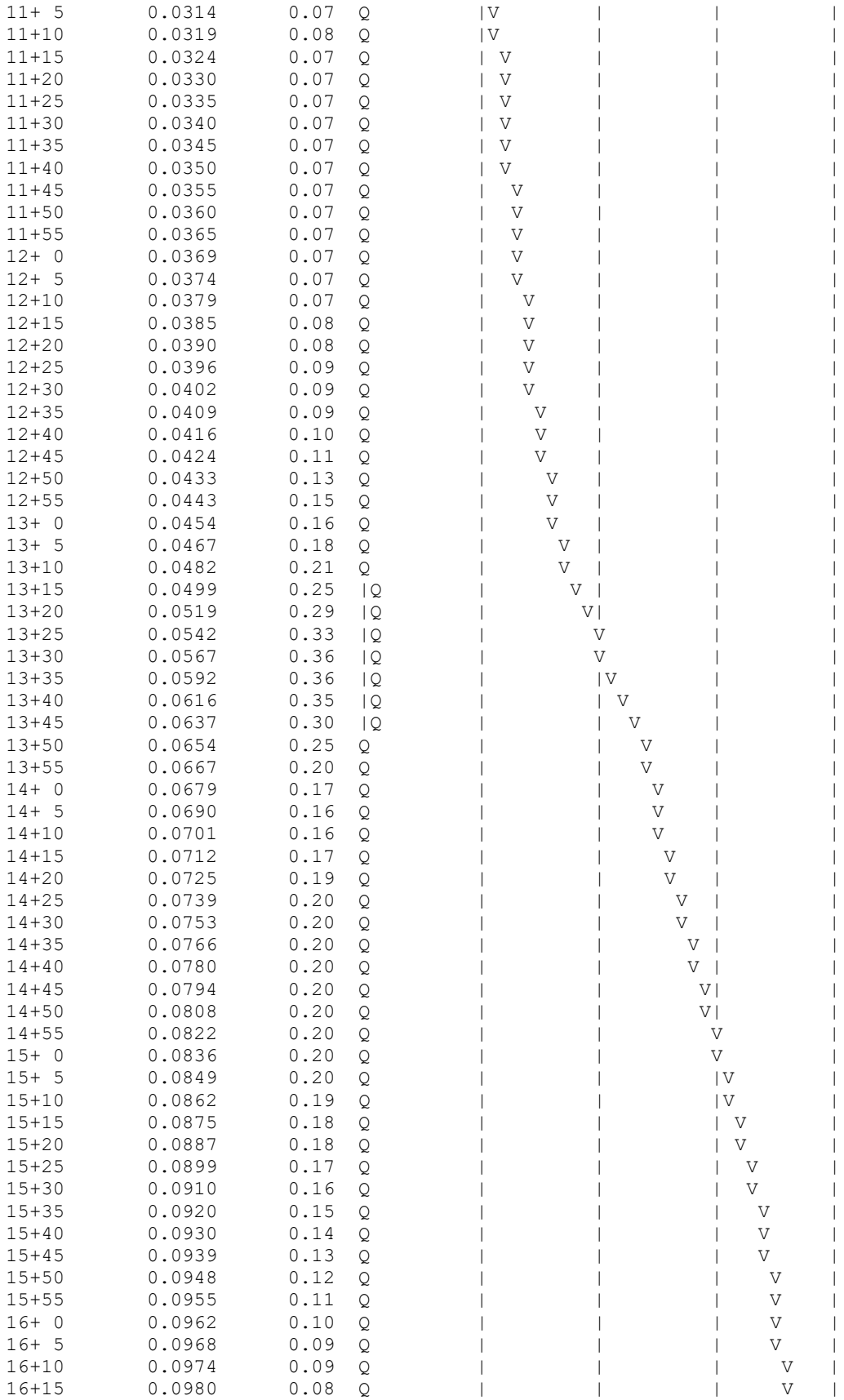
24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0000	0.00	Q	|	|	|	|
0+10	0.0000	0.00	Q	|	|	|	|
0+15	0.0000	0.00	Q	|	|	|	|
0+20	0.0000	0.00	Q	|	|	|	|
0+25	0.0001	0.00	Q	|	|	|	|
0+30	0.0001	0.01	Q	|	|	|	|

0+35	0.0002	0.01	Q	|	|	|	|
0+40	0.0002	0.01	Q	|	|	|	|
0+45	0.0003	0.01	Q	|	|	|	|
0+50	0.0004	0.01	Q	|	|	|	|
0+55	0.0004	0.01	Q	|	|	|	|
1+ 0	0.0005	0.01	Q	|	|	|	|
1+ 5	0.0006	0.01	Q	|	|	|	|
1+10	0.0007	0.01	Q	|	|	|	|
1+15	0.0008	0.01	Q	|	|	|	|
1+20	0.0008	0.01	Q	|	|	|	|
1+25	0.0009	0.01	Q	|	|	|	|
1+30	0.0010	0.01	Q	|	|	|	|
1+35	0.0011	0.01	Q	|	|	|	|
1+40	0.0012	0.01	Q	|	|	|	|
1+45	0.0012	0.01	Q	|	|	|	|
1+50	0.0013	0.01	Q	|	|	|	|
1+55	0.0014	0.01	Q	|	|	|	|
2+ 0	0.0015	0.01	Q	|	|	|	|
2+ 5	0.0016	0.01	Q	|	|	|	|
2+10	0.0017	0.01	Q	|	|	|	|
2+15	0.0018	0.01	Q	|	|	|	|
2+20	0.0019	0.01	Q	|	|	|	|
2+25	0.0020	0.01	Q	|	|	|	|
2+30	0.0021	0.01	Q	|	|	|	|
2+35	0.0022	0.02	Q	|	|	|	|
2+40	0.0023	0.02	Q	|	|	|	|
2+45	0.0024	0.02	Q	|	|	|	|
2+50	0.0025	0.02	Q	|	|	|	|
2+55	0.0026	0.02	Q	|	|	|	|
3+ 0	0.0028	0.02	QV	|	|	|	|
3+ 5	0.0029	0.02	QV	|	|	|	|
3+10	0.0030	0.02	QV	|	|	|	|
3+15	0.0031	0.02	QV	|	|	|	|
3+20	0.0033	0.02	QV	|	|	|	|
3+25	0.0034	0.02	QV	|	|	|	|
3+30	0.0035	0.02	QV	|	|	|	|
3+35	0.0037	0.02	QV	|	|	|	|
3+40	0.0038	0.02	QV	|	|	|	|
3+45	0.0039	0.02	QV	|	|	|	|
3+50	0.0040	0.02	QV	|	|	|	|
3+55	0.0042	0.02	QV	|	|	|	|
4+ 0	0.0043	0.02	QV	|	|	|	|
4+ 5	0.0045	0.02	QV	|	|	|	|
4+10	0.0046	0.02	QV	|	|	|	|
4+15	0.0048	0.02	QV	|	|	|	|
4+20	0.0049	0.02	QV	|	|	|	|
4+25	0.0051	0.02	QV	|	|	|	|
4+30	0.0052	0.02	QV	|	|	|	|
4+35	0.0054	0.02	Q V	|	|	|	|
4+40	0.0056	0.03	Q V	|	|	|	|
4+45	0.0058	0.03	Q V	|	|	|	|
4+50	0.0059	0.03	Q V	|	|	|	|
4+55	0.0061	0.03	Q V	|	|	|	|
5+ 0	0.0063	0.03	Q V	|	|	|	|
5+ 5	0.0065	0.03	Q V	|	|	|	|
5+10	0.0067	0.03	Q V	|	|	|	|
5+15	0.0069	0.03	Q V	|	|	|	|
5+20	0.0071	0.03	Q V	|	|	|	|
5+25	0.0072	0.03	Q V	|	|	|	|
5+30	0.0074	0.03	Q V	|	|	|	|
5+35	0.0076	0.03	Q V	|	|	|	|
5+40	0.0078	0.03	Q V	|	|	|	|
5+45	0.0080	0.03	Q V	|	|	|	|

5+50	0.0082	0.03	Q	V	|	|	|	|
5+55	0.0084	0.03	Q	V	|	|	|	|
6+ 0	0.0086	0.03	Q	V	|	|	|	|
6+ 5	0.0088	0.03	Q	V	|	|	|	|
6+10	0.0090	0.03	Q	V	|	|	|	|
6+15	0.0092	0.03	Q	V	|	|	|	|
6+20	0.0094	0.03	Q	V	|	|	|	|
6+25	0.0097	0.03	Q	V	|	|	|	|
6+30	0.0099	0.03	Q	V	|	|	|	|
6+35	0.0101	0.03	Q	V	|	|	|	|
6+40	0.0103	0.03	Q	V	|	|	|	|
6+45	0.0106	0.03	Q	V	|	|	|	|
6+50	0.0108	0.04	Q	V	|	|	|	|
6+55	0.0111	0.04	Q	V	|	|	|	|
7+ 0	0.0113	0.04	Q	V	|	|	|	|
7+ 5	0.0116	0.04	Q	V	|	|	|	|
7+10	0.0119	0.04	Q	V	|	|	|	|
7+15	0.0121	0.04	Q	V	|	|	|	|
7+20	0.0124	0.04	Q	V	|	|	|	|
7+25	0.0126	0.04	Q	V	|	|	|	|
7+30	0.0129	0.04	Q	V	|	|	|	|
7+35	0.0132	0.04	Q	V	|	|	|	|
7+40	0.0135	0.04	Q	V	|	|	|	|
7+45	0.0138	0.04	Q	V	|	|	|	|
7+50	0.0141	0.04	Q	V	|	|	|	|
7+55	0.0144	0.04	Q	V	|	|	|	|
8+ 0	0.0147	0.05	Q	V	|	|	|	|
8+ 5	0.0150	0.05	Q	V	|	|	|	|
8+10	0.0153	0.05	Q	V	|	|	|	|
8+15	0.0157	0.05	Q	V	|	|	|	|
8+20	0.0160	0.05	Q	V	|	|	|	|
8+25	0.0164	0.05	Q	V	|	|	|	|
8+30	0.0168	0.05	Q	V	|	|	|	|
8+35	0.0172	0.06	Q	V	|	|	|	|
8+40	0.0175	0.06	Q	V	|	|	|	|
8+45	0.0179	0.06	Q	V	|	|	|	|
8+50	0.0183	0.06	Q	V	|	|	|	|
8+55	0.0187	0.06	Q	V	|	|	|	|
9+ 0	0.0192	0.06	Q	V	|	|	|	|
9+ 5	0.0196	0.06	Q	V	|	|	|	|
9+10	0.0200	0.06	Q	V	|	|	|	|
9+15	0.0205	0.07	Q	V	|	|	|	|
9+20	0.0209	0.07	Q	V	|	|	|	|
9+25	0.0214	0.07	Q	V	|	|	|	|
9+30	0.0219	0.07	Q	V	|	|	|	|
9+35	0.0224	0.07	Q	V	|	|	|	|
9+40	0.0229	0.07	Q	V	|	|	|	|
9+45	0.0234	0.08	Q	V	|	|	|	|
9+50	0.0239	0.08	Q	V	|	|	|	|
9+55	0.0245	0.08	Q	V	|	|	|	|
10+ 0	0.0250	0.08	Q	V	|	|	|	|
10+ 5	0.0256	0.08	Q	V	|	|	|	|
10+10	0.0261	0.08	Q	V	|	|	|	|
10+15	0.0266	0.08	Q	V	|	|	|	|
10+20	0.0271	0.07	Q	V	|	|	|	|
10+25	0.0276	0.07	Q	V	|	|	|	|
10+30	0.0280	0.07	Q	V	|	|	|	|
10+35	0.0285	0.06	Q	V	|	|	|	|
10+40	0.0289	0.07	Q	V	|	|	|	|
10+45	0.0294	0.07	Q	V	|	|	|	|
10+50	0.0299	0.07	Q	V	|	|	|	|
10+55	0.0304	0.07	Q	V	|	|	|	|
11+ 0	0.0309	0.07	Q	V	|	|	|	|



16+20	0.0984	0.06	Q				V
16+25	0.0988	0.05	Q				V
16+30	0.0991	0.05	Q				V
16+35	0.0993	0.04	Q				V
16+40	0.0996	0.04	Q				V
16+45	0.0998	0.03	Q				V
16+50	0.1000	0.03	Q				V
16+55	0.1002	0.03	Q				V
17+ 0	0.1004	0.03	Q				V
17+ 5	0.1006	0.02	Q				V
17+10	0.1007	0.02	Q				V
17+15	0.1009	0.02	Q				V
17+20	0.1010	0.02	Q				V
17+25	0.1012	0.02	Q				V
17+30	0.1013	0.02	Q				V
17+35	0.1015	0.02	Q				V
17+40	0.1016	0.02	Q				V
17+45	0.1018	0.02	Q				V
17+50	0.1019	0.02	Q				V
17+55	0.1020	0.02	Q				V
18+ 0	0.1022	0.02	Q				V
18+ 5	0.1023	0.02	Q				V
18+10	0.1024	0.02	Q				V
18+15	0.1025	0.02	Q				V
18+20	0.1027	0.02	Q				V
18+25	0.1028	0.02	Q				V
18+30	0.1029	0.02	Q				V
18+35	0.1030	0.02	Q				V
18+40	0.1031	0.02	Q				V
18+45	0.1032	0.01	Q				V
18+50	0.1033	0.01	Q				V
18+55	0.1034	0.01	Q				V
19+ 0	0.1035	0.01	Q				V
19+ 5	0.1035	0.01	Q				V
19+10	0.1036	0.01	Q				V
19+15	0.1037	0.01	Q				V
19+20	0.1038	0.01	Q				V
19+25	0.1039	0.01	Q				V
19+30	0.1039	0.01	Q				V
19+35	0.1040	0.01	Q				V
19+40	0.1041	0.01	Q				V
19+45	0.1042	0.01	Q				V
19+50	0.1043	0.01	Q				V
19+55	0.1044	0.01	Q				V
20+ 0	0.1045	0.01	Q				V
20+ 5	0.1045	0.01	Q				V
20+10	0.1046	0.01	Q				V
20+15	0.1047	0.01	Q				V
20+20	0.1048	0.01	Q				V
20+25	0.1048	0.01	Q				V
20+30	0.1049	0.01	Q				V
20+35	0.1050	0.01	Q				V
20+40	0.1051	0.01	Q				V
20+45	0.1052	0.01	Q				V
20+50	0.1052	0.01	Q				V
20+55	0.1053	0.01	Q				V
21+ 0	0.1054	0.01	Q				V
21+ 5	0.1055	0.01	Q				V
21+10	0.1055	0.01	Q				V
21+15	0.1056	0.01	Q				V
21+20	0.1057	0.01	Q				V
21+25	0.1057	0.01	Q				V
21+30	0.1058	0.01	Q				V

21+35	0.1059	0.01	Q	|	|	|	V|
21+40	0.1059	0.01	Q	|	|	|	V|
21+45	0.1060	0.01	Q	|	|	|	V|
21+50	0.1061	0.01	Q	|	|	|	V|
21+55	0.1061	0.01	Q	|	|	|	V|
22+ 0	0.1062	0.01	Q	|	|	|	V|
22+ 5	0.1063	0.01	Q	|	|	|	V|
22+10	0.1063	0.01	Q	|	|	|	V|
22+15	0.1064	0.01	Q	|	|	|	V|
22+20	0.1065	0.01	Q	|	|	|	V|
22+25	0.1066	0.01	Q	|	|	|	V|
22+30	0.1066	0.01	Q	|	|	|	V|
22+35	0.1067	0.01	Q	|	|	|	V|
22+40	0.1067	0.01	Q	|	|	|	V|
22+45	0.1068	0.01	Q	|	|	|	V|
22+50	0.1069	0.01	Q	|	|	|	V|
22+55	0.1069	0.01	Q	|	|	|	V|
23+ 0	0.1070	0.01	Q	|	|	|	V|
23+ 5	0.1070	0.01	Q	|	|	|	V|
23+10	0.1071	0.01	Q	|	|	|	V|
23+15	0.1071	0.01	Q	|	|	|	V|
23+20	0.1072	0.01	Q	|	|	|	V|
23+25	0.1073	0.01	Q	|	|	|	V|
23+30	0.1073	0.01	Q	|	|	|	V|
23+35	0.1074	0.01	Q	|	|	|	V|
23+40	0.1074	0.01	Q	|	|	|	V|
23+45	0.1075	0.01	Q	|	|	|	V|
23+50	0.1075	0.01	Q	|	|	|	V|
23+55	0.1076	0.01	Q	|	|	|	V|
24+ 0	0.1076	0.01	Q	|	|	|	V|
24+ 5	0.1077	0.01	Q	|	|	|	V|
24+10	0.1077	0.01	Q	|	|	|	V|
24+15	0.1078	0.01	Q	|	|	|	V|
24+20	0.1078	0.00	Q	|	|	|	V|
24+25	0.1078	0.00	Q	|	|	|	V|
24+30	0.1079	0.00	Q	|	|	|	V|
24+35	0.1079	0.00	Q	|	|	|	V|
24+40	0.1079	0.00	Q	|	|	|	V|
24+45	0.1079	0.00	Q	|	|	|	V|
24+50	0.1079	0.00	Q	|	|	|	V|
24+55	0.1079	0.00	Q	|	|	|	V|
25+ 0	0.1079	0.00	Q	|	|	|	V|
25+ 5	0.1079	0.00	Q	|	|	|	V|
25+10	0.1079	0.00	Q	|	|	|	V|
25+15	0.1079	0.00	Q	|	|	|	V|
25+20	0.1079	0.00	Q	|	|	|	V|
25+25	0.1079	0.00	Q	|	|	|	V|
25+30	0.1079	0.00	Q	|	|	|	V|
25+35	0.1079	0.00	Q	|	|	|	V|
25+40	0.1079	0.00	Q	|	|	|	V|
25+45	0.1079	0.00	Q	|	|	|	V|
25+50	0.1079	0.00	Q	|	|	|	V|
25+55	0.1080	0.00	Q	|	|	|	V|
26+ 0	0.1080	0.00	Q	|	|	|	V|
26+ 5	0.1080	0.00	Q	|	|	|	V|
26+10	0.1080	0.00	Q	|	|	|	V|
26+15	0.1080	0.00	Q	|	|	|	V|
26+20	0.1080	0.00	Q	|	|	|	V|
26+25	0.1080	0.00	Q	|	|	|	V|
26+30	0.1080	0.00	Q	|	|	|	V

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/11/21 File: UHYDEX102410.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6497

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

UNIT HYDROGRAPH FOR EXISTING CONDITION -10 YR STORM

Drainage Area = 3.75(Ac.) = 0.006 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 3.75(Ac.) = 0.006 Sq. Mi.
USER Entry of lag time in hours
Lag time = 0.320 Hr.
Lag time = 19.20 Min.
25% of lag time = 4.80 Min.
40% of lag time = 7.68 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
3.75	2.58	9.68

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
3.75	6.22	23.32

STORM EVENT (YEAR) = 10.00
Area Averaged 2-Year Rainfall = 2.580(In)
Area Averaged 100-Year Rainfall = 6.220(In)

Point rain (area averaged) = 4.078(In)
Areal adjustment factor = 100.00 %
Adjusted average point rain = 4.077(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
3.750	78.00	0.000

Total Area Entered = 3.75(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
78.0	78.0	0.268	0.000	0.268	1.000	0.268
					Sum (F) =	0.268

Area averaged mean soil loss (F) (In/Hr) = 0.268
Minimum soil loss rate ((In/Hr)) = 0.134
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	26.042	2.416	0.091
2	0.167	52.083	8.222	0.311
3	0.250	78.125	14.653	0.554
4	0.333	104.167	18.270	0.690
5	0.417	130.208	14.927	0.564
6	0.500	156.250	9.045	0.342
7	0.583	182.292	5.717	0.216
8	0.667	208.333	4.019	0.152
9	0.750	234.375	3.260	0.123
10	0.833	260.417	2.686	0.102
11	0.917	286.458	2.308	0.087
12	1.000	312.500	1.904	0.072
13	1.083	338.542	1.605	0.061
14	1.167	364.583	1.497	0.057
15	1.250	390.625	1.186	0.045
16	1.333	416.667	1.082	0.041
17	1.417	442.708	0.854	0.032
18	1.500	468.750	0.820	0.031
19	1.583	494.792	0.783	0.030
20	1.667	520.833	0.715	0.027
21	1.750	546.875	0.577	0.022
22	1.833	572.917	0.533	0.020
23	1.917	598.958	0.469	0.018
24	2.000	625.000	0.421	0.016
25	2.083	651.042	0.365	0.014
26	2.167	677.083	0.308	0.012
27	2.250	703.125	0.260	0.010
28	2.333	729.167	0.260	0.010
29	2.417	755.208	0.260	0.010
30	2.500	781.250	0.260	0.010
31	2.583	807.292	0.318	0.012
			Sum = 100.000	Sum= 3.779

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)

1	0.08	0.07	0.033	(0.474)	0.029	0.003
2	0.17	0.07	0.033	(0.473)	0.029	0.003
3	0.25	0.07	0.033	(0.471)	0.029	0.003
4	0.33	0.10	0.049	(0.469)	0.044	0.005
5	0.42	0.10	0.049	(0.467)	0.044	0.005
6	0.50	0.10	0.049	(0.465)	0.044	0.005
7	0.58	0.10	0.049	(0.463)	0.044	0.005
8	0.67	0.10	0.049	(0.462)	0.044	0.005
9	0.75	0.10	0.049	(0.460)	0.044	0.005
10	0.83	0.13	0.065	(0.458)	0.059	0.007
11	0.92	0.13	0.065	(0.456)	0.059	0.007
12	1.00	0.13	0.065	(0.454)	0.059	0.007
13	1.08	0.10	0.049	(0.453)	0.044	0.005
14	1.17	0.10	0.049	(0.451)	0.044	0.005
15	1.25	0.10	0.049	(0.449)	0.044	0.005
16	1.33	0.10	0.049	(0.447)	0.044	0.005
17	1.42	0.10	0.049	(0.445)	0.044	0.005
18	1.50	0.10	0.049	(0.444)	0.044	0.005
19	1.58	0.10	0.049	(0.442)	0.044	0.005
20	1.67	0.10	0.049	(0.440)	0.044	0.005
21	1.75	0.10	0.049	(0.438)	0.044	0.005
22	1.83	0.13	0.065	(0.437)	0.059	0.007
23	1.92	0.13	0.065	(0.435)	0.059	0.007
24	2.00	0.13	0.065	(0.433)	0.059	0.007
25	2.08	0.13	0.065	(0.431)	0.059	0.007
26	2.17	0.13	0.065	(0.430)	0.059	0.007
27	2.25	0.13	0.065	(0.428)	0.059	0.007
28	2.33	0.13	0.065	(0.426)	0.059	0.007
29	2.42	0.13	0.065	(0.424)	0.059	0.007
30	2.50	0.13	0.065	(0.423)	0.059	0.007
31	2.58	0.17	0.082	(0.421)	0.073	0.008
32	2.67	0.17	0.082	(0.419)	0.073	0.008
33	2.75	0.17	0.082	(0.417)	0.073	0.008
34	2.83	0.17	0.082	(0.416)	0.073	0.008
35	2.92	0.17	0.082	(0.414)	0.073	0.008
36	3.00	0.17	0.082	(0.412)	0.073	0.008
37	3.08	0.17	0.082	(0.411)	0.073	0.008
38	3.17	0.17	0.082	(0.409)	0.073	0.008
39	3.25	0.17	0.082	(0.407)	0.073	0.008
40	3.33	0.17	0.082	(0.405)	0.073	0.008
41	3.42	0.17	0.082	(0.404)	0.073	0.008
42	3.50	0.17	0.082	(0.402)	0.073	0.008
43	3.58	0.17	0.082	(0.400)	0.073	0.008
44	3.67	0.17	0.082	(0.399)	0.073	0.008
45	3.75	0.17	0.082	(0.397)	0.073	0.008
46	3.83	0.20	0.098	(0.395)	0.088	0.010
47	3.92	0.20	0.098	(0.394)	0.088	0.010
48	4.00	0.20	0.098	(0.392)	0.088	0.010
49	4.08	0.20	0.098	(0.390)	0.088	0.010
50	4.17	0.20	0.098	(0.389)	0.088	0.010
51	4.25	0.20	0.098	(0.387)	0.088	0.010
52	4.33	0.23	0.114	(0.385)	0.103	0.011
53	4.42	0.23	0.114	(0.384)	0.103	0.011
54	4.50	0.23	0.114	(0.382)	0.103	0.011
55	4.58	0.23	0.114	(0.381)	0.103	0.011
56	4.67	0.23	0.114	(0.379)	0.103	0.011
57	4.75	0.23	0.114	(0.377)	0.103	0.011
58	4.83	0.27	0.130	(0.376)	0.117	0.013
59	4.92	0.27	0.130	(0.374)	0.117	0.013
60	5.00	0.27	0.130	(0.372)	0.117	0.013
61	5.08	0.20	0.098	(0.371)	0.088	0.010
62	5.17	0.20	0.098	(0.369)	0.088	0.010
63	5.25	0.20	0.098	(0.368)	0.088	0.010

64	5.33	0.23	0.114	(0.366)	0.103	0.011
65	5.42	0.23	0.114	(0.364)	0.103	0.011
66	5.50	0.23	0.114	(0.363)	0.103	0.011
67	5.58	0.27	0.130	(0.361)	0.117	0.013
68	5.67	0.27	0.130	(0.360)	0.117	0.013
69	5.75	0.27	0.130	(0.358)	0.117	0.013
70	5.83	0.27	0.130	(0.356)	0.117	0.013
71	5.92	0.27	0.130	(0.355)	0.117	0.013
72	6.00	0.27	0.130	(0.353)	0.117	0.013
73	6.08	0.30	0.147	(0.352)	0.132	0.015
74	6.17	0.30	0.147	(0.350)	0.132	0.015
75	6.25	0.30	0.147	(0.349)	0.132	0.015
76	6.33	0.30	0.147	(0.347)	0.132	0.015
77	6.42	0.30	0.147	(0.345)	0.132	0.015
78	6.50	0.30	0.147	(0.344)	0.132	0.015
79	6.58	0.33	0.163	(0.342)	0.147	0.016
80	6.67	0.33	0.163	(0.341)	0.147	0.016
81	6.75	0.33	0.163	(0.339)	0.147	0.016
82	6.83	0.33	0.163	(0.338)	0.147	0.016
83	6.92	0.33	0.163	(0.336)	0.147	0.016
84	7.00	0.33	0.163	(0.335)	0.147	0.016
85	7.08	0.33	0.163	(0.333)	0.147	0.016
86	7.17	0.33	0.163	(0.332)	0.147	0.016
87	7.25	0.33	0.163	(0.330)	0.147	0.016
88	7.33	0.37	0.179	(0.329)	0.161	0.018
89	7.42	0.37	0.179	(0.327)	0.161	0.018
90	7.50	0.37	0.179	(0.326)	0.161	0.018
91	7.58	0.40	0.196	(0.324)	0.176	0.020
92	7.67	0.40	0.196	(0.323)	0.176	0.020
93	7.75	0.40	0.196	(0.321)	0.176	0.020
94	7.83	0.43	0.212	(0.320)	0.191	0.021
95	7.92	0.43	0.212	(0.318)	0.191	0.021
96	8.00	0.43	0.212	(0.317)	0.191	0.021
97	8.08	0.50	0.245	(0.315)	0.220	0.024
98	8.17	0.50	0.245	(0.314)	0.220	0.024
99	8.25	0.50	0.245	(0.312)	0.220	0.024
100	8.33	0.50	0.245	(0.311)	0.220	0.024
101	8.42	0.50	0.245	(0.309)	0.220	0.024
102	8.50	0.50	0.245	(0.308)	0.220	0.024
103	8.58	0.53	0.261	(0.306)	0.235	0.026
104	8.67	0.53	0.261	(0.305)	0.235	0.026
105	8.75	0.53	0.261	(0.304)	0.235	0.026
106	8.83	0.57	0.277	(0.302)	0.250	0.028
107	8.92	0.57	0.277	(0.301)	0.250	0.028
108	9.00	0.57	0.277	(0.299)	0.250	0.028
109	9.08	0.63	0.310	(0.298)	0.279	0.031
110	9.17	0.63	0.310	(0.296)	0.279	0.031
111	9.25	0.63	0.310	(0.295)	0.279	0.031
112	9.33	0.67	0.326	(0.294)	0.294	0.033
113	9.42	0.67	0.326	0.292	(0.294)	0.034
114	9.50	0.67	0.326	0.291	(0.294)	0.035
115	9.58	0.70	0.343	0.289	(0.308)	0.053
116	9.67	0.70	0.343	0.288	(0.308)	0.054
117	9.75	0.70	0.343	0.287	(0.308)	0.056
118	9.83	0.73	0.359	0.285	(0.323)	0.073
119	9.92	0.73	0.359	0.284	(0.323)	0.075
120	10.00	0.73	0.359	0.283	(0.323)	0.076
121	10.08	0.50	0.245	(0.281)	0.220	0.024
122	10.17	0.50	0.245	(0.280)	0.220	0.024
123	10.25	0.50	0.245	(0.278)	0.220	0.024
124	10.33	0.50	0.245	(0.277)	0.220	0.024
125	10.42	0.50	0.245	(0.276)	0.220	0.024
126	10.50	0.50	0.245	(0.274)	0.220	0.024

127	10.58	0.67	0.326	0.273	(0.294)	0.053
128	10.67	0.67	0.326	0.272	(0.294)	0.054
129	10.75	0.67	0.326	0.270	(0.294)	0.056
130	10.83	0.67	0.326	0.269	(0.294)	0.057
131	10.92	0.67	0.326	0.268	(0.294)	0.058
132	11.00	0.67	0.326	0.266	(0.294)	0.060
133	11.08	0.63	0.310	0.265	(0.279)	0.045
134	11.17	0.63	0.310	0.264	(0.279)	0.046
135	11.25	0.63	0.310	0.263	(0.279)	0.047
136	11.33	0.63	0.310	0.261	(0.279)	0.049
137	11.42	0.63	0.310	0.260	(0.279)	0.050
138	11.50	0.63	0.310	0.259	(0.279)	0.051
139	11.58	0.57	0.277	(0.257)	0.250	0.028
140	11.67	0.57	0.277	(0.256)	0.250	0.028
141	11.75	0.57	0.277	(0.255)	0.250	0.028
142	11.83	0.60	0.294	0.254	(0.264)	0.040
143	11.92	0.60	0.294	0.252	(0.264)	0.041
144	12.00	0.60	0.294	0.251	(0.264)	0.043
145	12.08	0.83	0.408	0.250	(0.367)	0.158
146	12.17	0.83	0.408	0.249	(0.367)	0.159
147	12.25	0.83	0.408	0.247	(0.367)	0.160
148	12.33	0.87	0.424	0.246	(0.382)	0.178
149	12.42	0.87	0.424	0.245	(0.382)	0.179
150	12.50	0.87	0.424	0.244	(0.382)	0.180
151	12.58	0.93	0.457	0.242	(0.411)	0.214
152	12.67	0.93	0.457	0.241	(0.411)	0.216
153	12.75	0.93	0.457	0.240	(0.411)	0.217
154	12.83	0.97	0.473	0.239	(0.426)	0.234
155	12.92	0.97	0.473	0.238	(0.426)	0.235
156	13.00	0.97	0.473	0.236	(0.426)	0.237
157	13.08	1.13	0.555	0.235	(0.499)	0.319
158	13.17	1.13	0.555	0.234	(0.499)	0.321
159	13.25	1.13	0.555	0.233	(0.499)	0.322
160	13.33	1.13	0.555	0.232	(0.499)	0.323
161	13.42	1.13	0.555	0.230	(0.499)	0.324
162	13.50	1.13	0.555	0.229	(0.499)	0.325
163	13.58	0.77	0.375	0.228	(0.338)	0.147
164	13.67	0.77	0.375	0.227	(0.338)	0.148
165	13.75	0.77	0.375	0.226	(0.338)	0.149
166	13.83	0.77	0.375	0.225	(0.338)	0.151
167	13.92	0.77	0.375	0.223	(0.338)	0.152
168	14.00	0.77	0.375	0.222	(0.338)	0.153
169	14.08	0.90	0.440	0.221	(0.396)	0.219
170	14.17	0.90	0.440	0.220	(0.396)	0.220
171	14.25	0.90	0.440	0.219	(0.396)	0.221
172	14.33	0.87	0.424	0.218	(0.382)	0.206
173	14.42	0.87	0.424	0.217	(0.382)	0.207
174	14.50	0.87	0.424	0.216	(0.382)	0.209
175	14.58	0.87	0.424	0.214	(0.382)	0.210
176	14.67	0.87	0.424	0.213	(0.382)	0.211
177	14.75	0.87	0.424	0.212	(0.382)	0.212
178	14.83	0.83	0.408	0.211	(0.367)	0.197
179	14.92	0.83	0.408	0.210	(0.367)	0.198
180	15.00	0.83	0.408	0.209	(0.367)	0.199
181	15.08	0.80	0.391	0.208	(0.352)	0.184
182	15.17	0.80	0.391	0.207	(0.352)	0.185
183	15.25	0.80	0.391	0.206	(0.352)	0.186
184	15.33	0.77	0.375	0.205	(0.338)	0.170
185	15.42	0.77	0.375	0.204	(0.338)	0.171
186	15.50	0.77	0.375	0.203	(0.338)	0.172
187	15.58	0.63	0.310	0.202	(0.279)	0.108
188	15.67	0.63	0.310	0.201	(0.279)	0.109
189	15.75	0.63	0.310	0.200	(0.279)	0.110

190	15.83	0.63	0.310	0.199	(0.279)	0.111
191	15.92	0.63	0.310	0.198	(0.279)	0.112
192	16.00	0.63	0.310	0.197	(0.279)	0.113
193	16.08	0.13	0.065	(0.196)	0.059	0.007
194	16.17	0.13	0.065	(0.195)	0.059	0.007
195	16.25	0.13	0.065	(0.194)	0.059	0.007
196	16.33	0.13	0.065	(0.193)	0.059	0.007
197	16.42	0.13	0.065	(0.192)	0.059	0.007
198	16.50	0.13	0.065	(0.191)	0.059	0.007
199	16.58	0.10	0.049	(0.190)	0.044	0.005
200	16.67	0.10	0.049	(0.189)	0.044	0.005
201	16.75	0.10	0.049	(0.188)	0.044	0.005
202	16.83	0.10	0.049	(0.187)	0.044	0.005
203	16.92	0.10	0.049	(0.186)	0.044	0.005
204	17.00	0.10	0.049	(0.185)	0.044	0.005
205	17.08	0.17	0.082	(0.184)	0.073	0.008
206	17.17	0.17	0.082	(0.183)	0.073	0.008
207	17.25	0.17	0.082	(0.182)	0.073	0.008
208	17.33	0.17	0.082	(0.181)	0.073	0.008
209	17.42	0.17	0.082	(0.180)	0.073	0.008
210	17.50	0.17	0.082	(0.179)	0.073	0.008
211	17.58	0.17	0.082	(0.178)	0.073	0.008
212	17.67	0.17	0.082	(0.178)	0.073	0.008
213	17.75	0.17	0.082	(0.177)	0.073	0.008
214	17.83	0.13	0.065	(0.176)	0.059	0.007
215	17.92	0.13	0.065	(0.175)	0.059	0.007
216	18.00	0.13	0.065	(0.174)	0.059	0.007
217	18.08	0.13	0.065	(0.173)	0.059	0.007
218	18.17	0.13	0.065	(0.172)	0.059	0.007
219	18.25	0.13	0.065	(0.172)	0.059	0.007
220	18.33	0.13	0.065	(0.171)	0.059	0.007
221	18.42	0.13	0.065	(0.170)	0.059	0.007
222	18.50	0.13	0.065	(0.169)	0.059	0.007
223	18.58	0.10	0.049	(0.168)	0.044	0.005
224	18.67	0.10	0.049	(0.167)	0.044	0.005
225	18.75	0.10	0.049	(0.167)	0.044	0.005
226	18.83	0.07	0.033	(0.166)	0.029	0.003
227	18.92	0.07	0.033	(0.165)	0.029	0.003
228	19.00	0.07	0.033	(0.164)	0.029	0.003
229	19.08	0.10	0.049	(0.163)	0.044	0.005
230	19.17	0.10	0.049	(0.163)	0.044	0.005
231	19.25	0.10	0.049	(0.162)	0.044	0.005
232	19.33	0.13	0.065	(0.161)	0.059	0.007
233	19.42	0.13	0.065	(0.160)	0.059	0.007
234	19.50	0.13	0.065	(0.160)	0.059	0.007
235	19.58	0.10	0.049	(0.159)	0.044	0.005
236	19.67	0.10	0.049	(0.158)	0.044	0.005
237	19.75	0.10	0.049	(0.157)	0.044	0.005
238	19.83	0.07	0.033	(0.157)	0.029	0.003
239	19.92	0.07	0.033	(0.156)	0.029	0.003
240	20.00	0.07	0.033	(0.155)	0.029	0.003
241	20.08	0.10	0.049	(0.155)	0.044	0.005
242	20.17	0.10	0.049	(0.154)	0.044	0.005
243	20.25	0.10	0.049	(0.153)	0.044	0.005
244	20.33	0.10	0.049	(0.153)	0.044	0.005
245	20.42	0.10	0.049	(0.152)	0.044	0.005
246	20.50	0.10	0.049	(0.151)	0.044	0.005
247	20.58	0.10	0.049	(0.151)	0.044	0.005
248	20.67	0.10	0.049	(0.150)	0.044	0.005
249	20.75	0.10	0.049	(0.150)	0.044	0.005
250	20.83	0.07	0.033	(0.149)	0.029	0.003
251	20.92	0.07	0.033	(0.148)	0.029	0.003
252	21.00	0.07	0.033	(0.148)	0.029	0.003

253	21.08	0.10	0.049	(0.147)	0.044	0.005
254	21.17	0.10	0.049	(0.147)	0.044	0.005
255	21.25	0.10	0.049	(0.146)	0.044	0.005
256	21.33	0.07	0.033	(0.145)	0.029	0.003
257	21.42	0.07	0.033	(0.145)	0.029	0.003
258	21.50	0.07	0.033	(0.144)	0.029	0.003
259	21.58	0.10	0.049	(0.144)	0.044	0.005
260	21.67	0.10	0.049	(0.143)	0.044	0.005
261	21.75	0.10	0.049	(0.143)	0.044	0.005
262	21.83	0.07	0.033	(0.142)	0.029	0.003
263	21.92	0.07	0.033	(0.142)	0.029	0.003
264	22.00	0.07	0.033	(0.141)	0.029	0.003
265	22.08	0.10	0.049	(0.141)	0.044	0.005
266	22.17	0.10	0.049	(0.140)	0.044	0.005
267	22.25	0.10	0.049	(0.140)	0.044	0.005
268	22.33	0.07	0.033	(0.139)	0.029	0.003
269	22.42	0.07	0.033	(0.139)	0.029	0.003
270	22.50	0.07	0.033	(0.139)	0.029	0.003
271	22.58	0.07	0.033	(0.138)	0.029	0.003
272	22.67	0.07	0.033	(0.138)	0.029	0.003
273	22.75	0.07	0.033	(0.137)	0.029	0.003
274	22.83	0.07	0.033	(0.137)	0.029	0.003
275	22.92	0.07	0.033	(0.137)	0.029	0.003
276	23.00	0.07	0.033	(0.136)	0.029	0.003
277	23.08	0.07	0.033	(0.136)	0.029	0.003
278	23.17	0.07	0.033	(0.136)	0.029	0.003
279	23.25	0.07	0.033	(0.136)	0.029	0.003
280	23.33	0.07	0.033	(0.135)	0.029	0.003
281	23.42	0.07	0.033	(0.135)	0.029	0.003
282	23.50	0.07	0.033	(0.135)	0.029	0.003
283	23.58	0.07	0.033	(0.135)	0.029	0.003
284	23.67	0.07	0.033	(0.134)	0.029	0.003
285	23.75	0.07	0.033	(0.134)	0.029	0.003
286	23.83	0.07	0.033	(0.134)	0.029	0.003
287	23.92	0.07	0.033	(0.134)	0.029	0.003
288	24.00	0.07	0.033	(0.134)	0.029	0.003

(Loss Rate Not Used)

Sum = 100.0 Sum = 12.8

Flood volume = Effective rainfall 1.07(In)
times area 3.8(Ac.)/[(In)/(Ft.)] = 0.3(Ac.Ft)
Total soil loss = 3.01(In)
Total soil loss = 0.941(Ac.Ft)
Total rainfall = 4.08(In)
Flood volume = 14505.9 Cubic Feet
Total soil loss = 40999.0 Cubic Feet

Peak flow rate of this hydrograph = 1.061(CFS)

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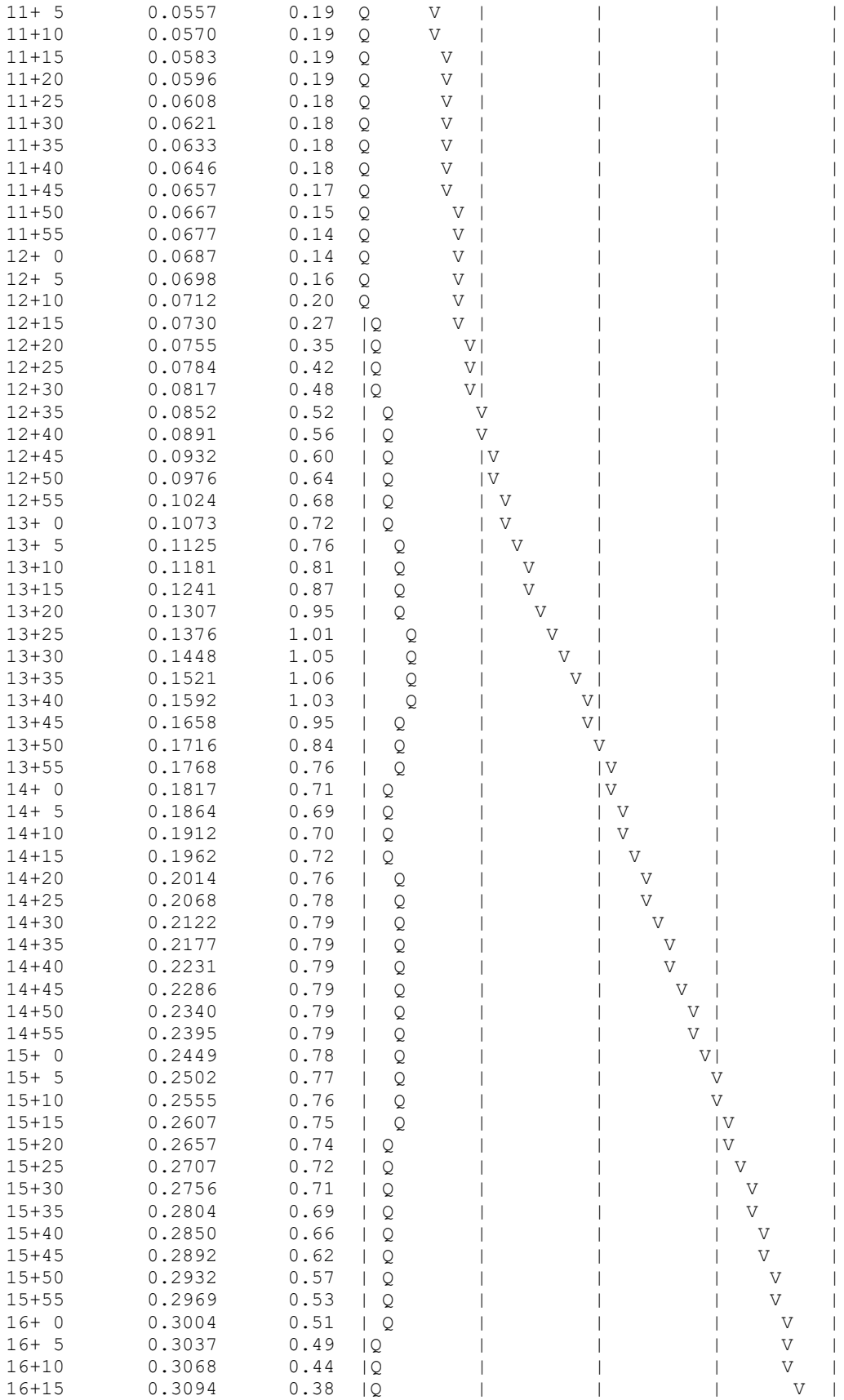
24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0000	0.00	Q	|	|	|	|
0+10	0.0000	0.00	Q	|	|	|	|
0+15	0.0000	0.00	Q	|	|	|	|
0+20	0.0001	0.01	Q	|	|	|	|
0+25	0.0001	0.01	Q	|	|	|	|
0+30	0.0002	0.01	Q	|	|	|	|

0+35	0.0003	0.01	Q				
0+40	0.0004	0.01	Q				
0+45	0.0005	0.01	Q				
0+50	0.0006	0.01	Q				
0+55	0.0007	0.02	Q				
1+ 0	0.0008	0.02	Q				
1+ 5	0.0009	0.02	Q				
1+10	0.0011	0.02	Q				
1+15	0.0012	0.02	Q				
1+20	0.0013	0.02	Q				
1+25	0.0014	0.02	Q				
1+30	0.0016	0.02	Q				
1+35	0.0017	0.02	Q				
1+40	0.0018	0.02	Q				
1+45	0.0019	0.02	Q				
1+50	0.0021	0.02	Q				
1+55	0.0022	0.02	Q				
2+ 0	0.0023	0.02	Q				
2+ 5	0.0025	0.02	Q				
2+10	0.0026	0.02	Q				
2+15	0.0028	0.02	Q				
2+20	0.0029	0.02	Q				
2+25	0.0031	0.02	Q				
2+30	0.0033	0.02	Q				
2+35	0.0034	0.02	Q				
2+40	0.0036	0.02	Q				
2+45	0.0038	0.03	Q				
2+50	0.0040	0.03	Q				
2+55	0.0042	0.03	Q				
3+ 0	0.0043	0.03	Q				
3+ 5	0.0045	0.03	Q				
3+10	0.0047	0.03	Q				
3+15	0.0049	0.03	Q				
3+20	0.0052	0.03	Q				
3+25	0.0054	0.03	Q				
3+30	0.0056	0.03	Q				
3+35	0.0058	0.03	Q				
3+40	0.0060	0.03	Q				
3+45	0.0062	0.03	Q				
3+50	0.0064	0.03	Q				
3+55	0.0066	0.03	Q				
4+ 0	0.0068	0.03	Q				
4+ 5	0.0071	0.03	Q				
4+10	0.0073	0.03	Q				
4+15	0.0075	0.03	Q				
4+20	0.0078	0.04	Q				
4+25	0.0080	0.04	Q				
4+30	0.0083	0.04	Q				
4+35	0.0085	0.04	QV				
4+40	0.0088	0.04	QV				
4+45	0.0091	0.04	QV				
4+50	0.0094	0.04	QV				
4+55	0.0097	0.04	QV				
5+ 0	0.0100	0.04	QV				
5+ 5	0.0103	0.04	QV				
5+10	0.0106	0.04	QV				
5+15	0.0109	0.04	QV				
5+20	0.0112	0.04	QV				
5+25	0.0114	0.04	QV				
5+30	0.0117	0.04	QV				
5+35	0.0120	0.04	QV				
5+40	0.0123	0.04	QV				
5+45	0.0126	0.04	QV				

5+50	0.0129	0.05	QV	|	|	|	|
5+55	0.0132	0.05	QV	|	|	|	|
6+ 0	0.0135	0.05	QV	|	|	|	|
6+ 5	0.0139	0.05	QV	|	|	|	|
6+10	0.0142	0.05	QV	|	|	|	|
6+15	0.0145	0.05	QV	|	|	|	|
6+20	0.0149	0.05	QV	|	|	|	|
6+25	0.0153	0.05	QV	|	|	|	|
6+30	0.0156	0.05	QV	|	|	|	|
6+35	0.0160	0.05	QV	|	|	|	|
6+40	0.0164	0.05	QV	|	|	|	|
6+45	0.0167	0.06	Q V	|	|	|	|
6+50	0.0171	0.06	Q V	|	|	|	|
6+55	0.0175	0.06	Q V	|	|	|	|
7+ 0	0.0179	0.06	Q V	|	|	|	|
7+ 5	0.0183	0.06	Q V	|	|	|	|
7+10	0.0187	0.06	Q V	|	|	|	|
7+15	0.0192	0.06	Q V	|	|	|	|
7+20	0.0196	0.06	Q V	|	|	|	|
7+25	0.0200	0.06	Q V	|	|	|	|
7+30	0.0204	0.06	Q V	|	|	|	|
7+35	0.0209	0.06	Q V	|	|	|	|
7+40	0.0213	0.06	Q V	|	|	|	|
7+45	0.0218	0.07	Q V	|	|	|	|
7+50	0.0222	0.07	Q V	|	|	|	|
7+55	0.0227	0.07	Q V	|	|	|	|
8+ 0	0.0232	0.07	Q V	|	|	|	|
8+ 5	0.0237	0.07	Q V	|	|	|	|
8+10	0.0242	0.08	Q V	|	|	|	|
8+15	0.0248	0.08	Q V	|	|	|	|
8+20	0.0253	0.08	Q V	|	|	|	|
8+25	0.0259	0.08	Q V	|	|	|	|
8+30	0.0265	0.09	Q V	|	|	|	|
8+35	0.0271	0.09	Q V	|	|	|	|
8+40	0.0277	0.09	Q V	|	|	|	|
8+45	0.0283	0.09	Q V	|	|	|	|
8+50	0.0290	0.09	Q V	|	|	|	|
8+55	0.0296	0.09	Q V	|	|	|	|
9+ 0	0.0303	0.10	Q V	|	|	|	|
9+ 5	0.0310	0.10	Q V	|	|	|	|
9+10	0.0316	0.10	Q V	|	|	|	|
9+15	0.0324	0.10	Q V	|	|	|	|
9+20	0.0331	0.11	Q V	|	|	|	|
9+25	0.0338	0.11	Q V	|	|	|	|
9+30	0.0346	0.11	Q V	|	|	|	|
9+35	0.0354	0.12	Q V	|	|	|	|
9+40	0.0363	0.13	Q V	|	|	|	|
9+45	0.0373	0.14	Q V	|	|	|	|
9+50	0.0383	0.16	Q V	|	|	|	|
9+55	0.0396	0.18	Q V	|	|	|	|
10+ 0	0.0409	0.20	Q V	|	|	|	|
10+ 5	0.0423	0.21	Q V	|	|	|	|
10+10	0.0438	0.21	Q V	|	|	|	|
10+15	0.0451	0.19	Q V	|	|	|	|
10+20	0.0462	0.16	Q V	|	|	|	|
10+25	0.0472	0.14	Q V	|	|	|	|
10+30	0.0481	0.13	Q V	|	|	|	|
10+35	0.0489	0.12	Q V	|	|	|	|
10+40	0.0498	0.13	Q V	|	|	|	|
10+45	0.0508	0.14	Q V	|	|	|	|
10+50	0.0519	0.16	Q V	|	|	|	|
10+55	0.0531	0.17	Q V	|	|	|	|
11+ 0	0.0544	0.19	Q V	|	|	|	|



16+20	0.3114	0.30	|Q	|	|	|	V |
16+25	0.3130	0.23	Q	|	|	|	V |
16+30	0.3143	0.19	Q	|	|	|	V |
16+35	0.3154	0.16	Q	|	|	|	V |
16+40	0.3164	0.14	Q	|	|	|	V |
16+45	0.3173	0.12	Q	|	|	|	V |
16+50	0.3180	0.11	Q	|	|	|	V |
16+55	0.3187	0.10	Q	|	|	|	V |
17+ 0	0.3193	0.09	Q	|	|	|	V |
17+ 5	0.3198	0.08	Q	|	|	|	V |
17+10	0.3203	0.07	Q	|	|	|	V |
17+15	0.3207	0.07	Q	|	|	|	V |
17+20	0.3212	0.06	Q	|	|	|	V |
17+25	0.3216	0.06	Q	|	|	|	V |
17+30	0.3219	0.05	Q	|	|	|	V |
17+35	0.3223	0.05	Q	|	|	|	V |
17+40	0.3226	0.05	Q	|	|	|	V |
17+45	0.3229	0.05	Q	|	|	|	V |
17+50	0.3232	0.04	Q	|	|	|	V |
17+55	0.3235	0.04	Q	|	|	|	V |
18+ 0	0.3238	0.04	Q	|	|	|	V |
18+ 5	0.3240	0.03	Q	|	|	|	V |
18+10	0.3242	0.03	Q	|	|	|	V |
18+15	0.3244	0.03	Q	|	|	|	V |
18+20	0.3246	0.03	Q	|	|	|	V |
18+25	0.3248	0.03	Q	|	|	|	V|
18+30	0.3250	0.03	Q	|	|	|	V|
18+35	0.3252	0.03	Q	|	|	|	V|
18+40	0.3253	0.02	Q	|	|	|	V|
18+45	0.3255	0.02	Q	|	|	|	V|
18+50	0.3256	0.02	Q	|	|	|	V|
18+55	0.3258	0.02	Q	|	|	|	V|
19+ 0	0.3259	0.02	Q	|	|	|	V|
19+ 5	0.3260	0.02	Q	|	|	|	V|
19+10	0.3262	0.02	Q	|	|	|	V|
19+15	0.3263	0.02	Q	|	|	|	V|
19+20	0.3264	0.02	Q	|	|	|	V|
19+25	0.3265	0.02	Q	|	|	|	V|
19+30	0.3267	0.02	Q	|	|	|	V|
19+35	0.3268	0.02	Q	|	|	|	V|
19+40	0.3270	0.02	Q	|	|	|	V|
19+45	0.3271	0.02	Q	|	|	|	V|
19+50	0.3273	0.02	Q	|	|	|	V|
19+55	0.3274	0.02	Q	|	|	|	V|
20+ 0	0.3275	0.02	Q	|	|	|	V|
20+ 5	0.3276	0.02	Q	|	|	|	V|
20+10	0.3277	0.02	Q	|	|	|	V|
20+15	0.3279	0.02	Q	|	|	|	V|
20+20	0.3280	0.02	Q	|	|	|	V|
20+25	0.3281	0.02	Q	|	|	|	V|
20+30	0.3282	0.02	Q	|	|	|	V|
20+35	0.3283	0.02	Q	|	|	|	V|
20+40	0.3285	0.02	Q	|	|	|	V|
20+45	0.3286	0.02	Q	|	|	|	V|
20+50	0.3287	0.02	Q	|	|	|	V|
20+55	0.3288	0.02	Q	|	|	|	V|
21+ 0	0.3290	0.02	Q	|	|	|	V|
21+ 5	0.3291	0.02	Q	|	|	|	V|
21+10	0.3292	0.02	Q	|	|	|	V|
21+15	0.3293	0.02	Q	|	|	|	V|
21+20	0.3294	0.02	Q	|	|	|	V|
21+25	0.3295	0.02	Q	|	|	|	V|
21+30	0.3296	0.02	Q	|	|	|	V|

21+35	0.3297	0.02	Q	|	|	|	V|
21+40	0.3298	0.01	Q	|	|	|	V|
21+45	0.3299	0.02	Q	|	|	|	V|
21+50	0.3300	0.02	Q	|	|	|	V|
21+55	0.3302	0.02	Q	|	|	|	V|
22+ 0	0.3303	0.02	Q	|	|	|	V|
22+ 5	0.3304	0.02	Q	|	|	|	V|
22+10	0.3305	0.01	Q	|	|	|	V|
22+15	0.3306	0.02	Q	|	|	|	V|
22+20	0.3307	0.02	Q	|	|	|	V|
22+25	0.3308	0.02	Q	|	|	|	V|
22+30	0.3309	0.02	Q	|	|	|	V|
22+35	0.3310	0.01	Q	|	|	|	V|
22+40	0.3311	0.01	Q	|	|	|	V|
22+45	0.3312	0.01	Q	|	|	|	V|
22+50	0.3313	0.01	Q	|	|	|	V|
22+55	0.3314	0.01	Q	|	|	|	V|
23+ 0	0.3315	0.01	Q	|	|	|	V|
23+ 5	0.3316	0.01	Q	|	|	|	V|
23+10	0.3316	0.01	Q	|	|	|	V|
23+15	0.3317	0.01	Q	|	|	|	V|
23+20	0.3318	0.01	Q	|	|	|	V|
23+25	0.3319	0.01	Q	|	|	|	V|
23+30	0.3320	0.01	Q	|	|	|	V|
23+35	0.3321	0.01	Q	|	|	|	V|
23+40	0.3322	0.01	Q	|	|	|	V|
23+45	0.3323	0.01	Q	|	|	|	V|
23+50	0.3323	0.01	Q	|	|	|	V|
23+55	0.3324	0.01	Q	|	|	|	V|
24+ 0	0.3325	0.01	Q	|	|	|	V|
24+ 5	0.3326	0.01	Q	|	|	|	V|
24+10	0.3327	0.01	Q	|	|	|	V|
24+15	0.3327	0.01	Q	|	|	|	V|
24+20	0.3328	0.01	Q	|	|	|	V|
24+25	0.3328	0.01	Q	|	|	|	V|
24+30	0.3329	0.00	Q	|	|	|	V|
24+35	0.3329	0.00	Q	|	|	|	V|
24+40	0.3329	0.00	Q	|	|	|	V|
24+45	0.3329	0.00	Q	|	|	|	V|
24+50	0.3329	0.00	Q	|	|	|	V|
24+55	0.3329	0.00	Q	|	|	|	V|
25+ 0	0.3329	0.00	Q	|	|	|	V|
25+ 5	0.3330	0.00	Q	|	|	|	V|
25+10	0.3330	0.00	Q	|	|	|	V|
25+15	0.3330	0.00	Q	|	|	|	V|
25+20	0.3330	0.00	Q	|	|	|	V|
25+25	0.3330	0.00	Q	|	|	|	V|
25+30	0.3330	0.00	Q	|	|	|	V|
25+35	0.3330	0.00	Q	|	|	|	V|
25+40	0.3330	0.00	Q	|	|	|	V|
25+45	0.3330	0.00	Q	|	|	|	V|
25+50	0.3330	0.00	Q	|	|	|	V|
25+55	0.3330	0.00	Q	|	|	|	V|
26+ 0	0.3330	0.00	Q	|	|	|	V|
26+ 5	0.3330	0.00	Q	|	|	|	V|
26+10	0.3330	0.00	Q	|	|	|	V|
26+15	0.3330	0.00	Q	|	|	|	V|
26+20	0.3330	0.00	Q	|	|	|	V|
26+25	0.3330	0.00	Q	|	|	|	V|
26+30	0.3330	0.00	Q	|	|	|	V|

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/11/21 File: UHYDEX10024100.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6497

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

UNIT HYDROGRAPH FOR EXISTING CONDITION - 100-YR STORM - 24-HOURS

Drainage Area = 3.75(Ac.) = 0.006 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 3.75(Ac.) = 0.006 Sq. Mi.
USER Entry of lag time in hours
Lag time = 0.320 Hr.
Lag time = 19.20 Min.
25% of lag time = 4.80 Min.
40% of lag time = 7.68 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
3.75	2.58	9.68

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
3.75	6.22	23.32

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 2.580(In)
Area Averaged 100-Year Rainfall = 6.220(In)

Point rain (area averaged) = 6.220(In)
Areal adjustment factor = 100.00 %
Adjusted average point rain = 6.220(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
3.750	78.00	0.000

Total Area Entered = 3.75(Ac.)

RI AMC2	RI AMC-3	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
78.0	89.8	0.132	0.000	0.132	1.000	0.132
					Sum (F) =	0.132

Area averaged mean soil loss (F) (In/Hr) = 0.132
Minimum soil loss rate ((In/Hr)) = 0.066
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	26.042	2.416	0.091
2	0.167	52.083	8.222	0.311
3	0.250	78.125	14.653	0.554
4	0.333	104.167	18.270	0.690
5	0.417	130.208	14.927	0.564
6	0.500	156.250	9.045	0.342
7	0.583	182.292	5.717	0.216
8	0.667	208.333	4.019	0.152
9	0.750	234.375	3.260	0.123
10	0.833	260.417	2.686	0.102
11	0.917	286.458	2.308	0.087
12	1.000	312.500	1.904	0.072
13	1.083	338.542	1.605	0.061
14	1.167	364.583	1.497	0.057
15	1.250	390.625	1.186	0.045
16	1.333	416.667	1.082	0.041
17	1.417	442.708	0.854	0.032
18	1.500	468.750	0.820	0.031
19	1.583	494.792	0.783	0.030
20	1.667	520.833	0.715	0.027
21	1.750	546.875	0.577	0.022
22	1.833	572.917	0.533	0.020
23	1.917	598.958	0.469	0.018
24	2.000	625.000	0.421	0.016
25	2.083	651.042	0.365	0.014
26	2.167	677.083	0.308	0.012
27	2.250	703.125	0.260	0.010
28	2.333	729.167	0.260	0.010
29	2.417	755.208	0.260	0.010
30	2.500	781.250	0.260	0.010
31	2.583	807.292	0.318	0.012
			Sum = 100.000	Sum= 3.779

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)

1	0.08	0.07	0.050	(0.234)	0.045	0.005
2	0.17	0.07	0.050	(0.234)	0.045	0.005
3	0.25	0.07	0.050	(0.233)	0.045	0.005
4	0.33	0.10	0.075	(0.232)	0.067	0.007
5	0.42	0.10	0.075	(0.231)	0.067	0.007
6	0.50	0.10	0.075	(0.230)	0.067	0.007
7	0.58	0.10	0.075	(0.229)	0.067	0.007
8	0.67	0.10	0.075	(0.228)	0.067	0.007
9	0.75	0.10	0.075	(0.227)	0.067	0.007
10	0.83	0.13	0.100	(0.226)	0.090	0.010
11	0.92	0.13	0.100	(0.226)	0.090	0.010
12	1.00	0.13	0.100	(0.225)	0.090	0.010
13	1.08	0.10	0.075	(0.224)	0.067	0.007
14	1.17	0.10	0.075	(0.223)	0.067	0.007
15	1.25	0.10	0.075	(0.222)	0.067	0.007
16	1.33	0.10	0.075	(0.221)	0.067	0.007
17	1.42	0.10	0.075	(0.220)	0.067	0.007
18	1.50	0.10	0.075	(0.219)	0.067	0.007
19	1.58	0.10	0.075	(0.218)	0.067	0.007
20	1.67	0.10	0.075	(0.218)	0.067	0.007
21	1.75	0.10	0.075	(0.217)	0.067	0.007
22	1.83	0.13	0.100	(0.216)	0.090	0.010
23	1.92	0.13	0.100	(0.215)	0.090	0.010
24	2.00	0.13	0.100	(0.214)	0.090	0.010
25	2.08	0.13	0.100	(0.213)	0.090	0.010
26	2.17	0.13	0.100	(0.212)	0.090	0.010
27	2.25	0.13	0.100	(0.211)	0.090	0.010
28	2.33	0.13	0.100	(0.211)	0.090	0.010
29	2.42	0.13	0.100	(0.210)	0.090	0.010
30	2.50	0.13	0.100	(0.209)	0.090	0.010
31	2.58	0.17	0.124	(0.208)	0.112	0.012
32	2.67	0.17	0.124	(0.207)	0.112	0.012
33	2.75	0.17	0.124	(0.206)	0.112	0.012
34	2.83	0.17	0.124	(0.206)	0.112	0.012
35	2.92	0.17	0.124	(0.205)	0.112	0.012
36	3.00	0.17	0.124	(0.204)	0.112	0.012
37	3.08	0.17	0.124	(0.203)	0.112	0.012
38	3.17	0.17	0.124	(0.202)	0.112	0.012
39	3.25	0.17	0.124	(0.201)	0.112	0.012
40	3.33	0.17	0.124	(0.200)	0.112	0.012
41	3.42	0.17	0.124	(0.200)	0.112	0.012
42	3.50	0.17	0.124	(0.199)	0.112	0.012
43	3.58	0.17	0.124	(0.198)	0.112	0.012
44	3.67	0.17	0.124	(0.197)	0.112	0.012
45	3.75	0.17	0.124	(0.196)	0.112	0.012
46	3.83	0.20	0.149	(0.195)	0.134	0.015
47	3.92	0.20	0.149	(0.195)	0.134	0.015
48	4.00	0.20	0.149	(0.194)	0.134	0.015
49	4.08	0.20	0.149	(0.193)	0.134	0.015
50	4.17	0.20	0.149	(0.192)	0.134	0.015
51	4.25	0.20	0.149	(0.191)	0.134	0.015
52	4.33	0.23	0.174	(0.191)	0.157	0.017
53	4.42	0.23	0.174	(0.190)	0.157	0.017
54	4.50	0.23	0.174	(0.189)	0.157	0.017
55	4.58	0.23	0.174	(0.188)	0.157	0.017
56	4.67	0.23	0.174	(0.187)	0.157	0.017
57	4.75	0.23	0.174	(0.186)	0.157	0.017
58	4.83	0.27	0.199	(0.186)	0.179	0.020
59	4.92	0.27	0.199	(0.185)	0.179	0.020
60	5.00	0.27	0.199	(0.184)	0.179	0.020
61	5.08	0.20	0.149	(0.183)	0.134	0.015
62	5.17	0.20	0.149	(0.182)	0.134	0.015
63	5.25	0.20	0.149	(0.182)	0.134	0.015

64	5.33	0.23	0.174	(	0.181)	0.157		0.017
65	5.42	0.23	0.174	(	0.180)	0.157		0.017
66	5.50	0.23	0.174	(	0.179)	0.157		0.017
67	5.58	0.27	0.199		0.179	(0.179)		0.021
68	5.67	0.27	0.199		0.178	(0.179)		0.021
69	5.75	0.27	0.199		0.177	(0.179)		0.022
70	5.83	0.27	0.199		0.176	(0.179)		0.023
71	5.92	0.27	0.199		0.175	(0.179)		0.024
72	6.00	0.27	0.199		0.175	(0.179)		0.024
73	6.08	0.30	0.224		0.174	(0.202)		0.050
74	6.17	0.30	0.224		0.173	(0.202)		0.051
75	6.25	0.30	0.224		0.172	(0.202)		0.052
76	6.33	0.30	0.224		0.172	(0.202)		0.052
77	6.42	0.30	0.224		0.171	(0.202)		0.053
78	6.50	0.30	0.224		0.170	(0.202)		0.054
79	6.58	0.33	0.249		0.169	(0.224)		0.080
80	6.67	0.33	0.249		0.168	(0.224)		0.080
81	6.75	0.33	0.249		0.168	(0.224)		0.081
82	6.83	0.33	0.249		0.167	(0.224)		0.082
83	6.92	0.33	0.249		0.166	(0.224)		0.083
84	7.00	0.33	0.249		0.165	(0.224)		0.083
85	7.08	0.33	0.249		0.165	(0.224)		0.084
86	7.17	0.33	0.249		0.164	(0.224)		0.085
87	7.25	0.33	0.249		0.163	(0.224)		0.086
88	7.33	0.37	0.274		0.162	(0.246)		0.111
89	7.42	0.37	0.274		0.162	(0.246)		0.112
90	7.50	0.37	0.274		0.161	(0.246)		0.113
91	7.58	0.40	0.299		0.160	(0.269)		0.138
92	7.67	0.40	0.299		0.159	(0.269)		0.139
93	7.75	0.40	0.299		0.159	(0.269)		0.140
94	7.83	0.43	0.323		0.158	(0.291)		0.165
95	7.92	0.43	0.323		0.157	(0.291)		0.166
96	8.00	0.43	0.323		0.157	(0.291)		0.167
97	8.08	0.50	0.373		0.156	(0.336)		0.217
98	8.17	0.50	0.373		0.155	(0.336)		0.218
99	8.25	0.50	0.373		0.154	(0.336)		0.219
100	8.33	0.50	0.373		0.154	(0.336)		0.220
101	8.42	0.50	0.373		0.153	(0.336)		0.220
102	8.50	0.50	0.373		0.152	(0.336)		0.221
103	8.58	0.53	0.398		0.152	(0.358)		0.247
104	8.67	0.53	0.398		0.151	(0.358)		0.247
105	8.75	0.53	0.398		0.150	(0.358)		0.248
106	8.83	0.57	0.423		0.149	(0.381)		0.274
107	8.92	0.57	0.423		0.149	(0.381)		0.274
108	9.00	0.57	0.423		0.148	(0.381)		0.275
109	9.08	0.63	0.473		0.147	(0.425)		0.325
110	9.17	0.63	0.473		0.147	(0.425)		0.326
111	9.25	0.63	0.473		0.146	(0.425)		0.327
112	9.33	0.67	0.498		0.145	(0.448)		0.352
113	9.42	0.67	0.498		0.144	(0.448)		0.353
114	9.50	0.67	0.498		0.144	(0.448)		0.354
115	9.58	0.70	0.522		0.143	(0.470)		0.379
116	9.67	0.70	0.522		0.142	(0.470)		0.380
117	9.75	0.70	0.522		0.142	(0.470)		0.381
118	9.83	0.73	0.547		0.141	(0.493)		0.406
119	9.92	0.73	0.547		0.140	(0.493)		0.407
120	10.00	0.73	0.547		0.140	(0.493)		0.408
121	10.08	0.50	0.373		0.139	(0.336)		0.234
122	10.17	0.50	0.373		0.138	(0.336)		0.235
123	10.25	0.50	0.373		0.138	(0.336)		0.236
124	10.33	0.50	0.373		0.137	(0.336)		0.236
125	10.42	0.50	0.373		0.136	(0.336)		0.237
126	10.50	0.50	0.373		0.136	(0.336)		0.238

127	10.58	0.67	0.498	0.135	(0.448)	0.363
128	10.67	0.67	0.498	0.134	(0.448)	0.363
129	10.75	0.67	0.498	0.134	(0.448)	0.364
130	10.83	0.67	0.498	0.133	(0.448)	0.365
131	10.92	0.67	0.498	0.132	(0.448)	0.365
132	11.00	0.67	0.498	0.132	(0.448)	0.366
133	11.08	0.63	0.473	0.131	(0.425)	0.342
134	11.17	0.63	0.473	0.130	(0.425)	0.342
135	11.25	0.63	0.473	0.130	(0.425)	0.343
136	11.33	0.63	0.473	0.129	(0.425)	0.344
137	11.42	0.63	0.473	0.129	(0.425)	0.344
138	11.50	0.63	0.473	0.128	(0.425)	0.345
139	11.58	0.57	0.423	0.127	(0.381)	0.296
140	11.67	0.57	0.423	0.127	(0.381)	0.296
141	11.75	0.57	0.423	0.126	(0.381)	0.297
142	11.83	0.60	0.448	0.125	(0.403)	0.322
143	11.92	0.60	0.448	0.125	(0.403)	0.323
144	12.00	0.60	0.448	0.124	(0.403)	0.324
145	12.08	0.83	0.622	0.123	(0.560)	0.499
146	12.17	0.83	0.622	0.123	(0.560)	0.499
147	12.25	0.83	0.622	0.122	(0.560)	0.500
148	12.33	0.87	0.647	0.122	(0.582)	0.525
149	12.42	0.87	0.647	0.121	(0.582)	0.526
150	12.50	0.87	0.647	0.120	(0.582)	0.526
151	12.58	0.93	0.697	0.120	(0.627)	0.577
152	12.67	0.93	0.697	0.119	(0.627)	0.577
153	12.75	0.93	0.697	0.119	(0.627)	0.578
154	12.83	0.97	0.722	0.118	(0.649)	0.604
155	12.92	0.97	0.722	0.117	(0.649)	0.604
156	13.00	0.97	0.722	0.117	(0.649)	0.605
157	13.08	1.13	0.846	0.116	(0.761)	0.730
158	13.17	1.13	0.846	0.116	(0.761)	0.730
159	13.25	1.13	0.846	0.115	(0.761)	0.731
160	13.33	1.13	0.846	0.114	(0.761)	0.731
161	13.42	1.13	0.846	0.114	(0.761)	0.732
162	13.50	1.13	0.846	0.113	(0.761)	0.733
163	13.58	0.77	0.572	0.113	(0.515)	0.460
164	13.67	0.77	0.572	0.112	(0.515)	0.460
165	13.75	0.77	0.572	0.112	(0.515)	0.461
166	13.83	0.77	0.572	0.111	(0.515)	0.461
167	13.92	0.77	0.572	0.110	(0.515)	0.462
168	14.00	0.77	0.572	0.110	(0.515)	0.462
169	14.08	0.90	0.672	0.109	(0.605)	0.562
170	14.17	0.90	0.672	0.109	(0.605)	0.563
171	14.25	0.90	0.672	0.108	(0.605)	0.564
172	14.33	0.87	0.647	0.108	(0.582)	0.539
173	14.42	0.87	0.647	0.107	(0.582)	0.540
174	14.50	0.87	0.647	0.107	(0.582)	0.540
175	14.58	0.87	0.647	0.106	(0.582)	0.541
176	14.67	0.87	0.647	0.105	(0.582)	0.541
177	14.75	0.87	0.647	0.105	(0.582)	0.542
178	14.83	0.83	0.622	0.104	(0.560)	0.518
179	14.92	0.83	0.622	0.104	(0.560)	0.518
180	15.00	0.83	0.622	0.103	(0.560)	0.519
181	15.08	0.80	0.597	0.103	(0.537)	0.494
182	15.17	0.80	0.597	0.102	(0.537)	0.495
183	15.25	0.80	0.597	0.102	(0.537)	0.495
184	15.33	0.77	0.572	0.101	(0.515)	0.471
185	15.42	0.77	0.572	0.101	(0.515)	0.472
186	15.50	0.77	0.572	0.100	(0.515)	0.472
187	15.58	0.63	0.473	0.100	(0.425)	0.373
188	15.67	0.63	0.473	0.099	(0.425)	0.374
189	15.75	0.63	0.473	0.099	(0.425)	0.374

190	15.83	0.63	0.473	0.098	(0.425)	0.375
191	15.92	0.63	0.473	0.098	(0.425)	0.375
192	16.00	0.63	0.473	0.097	(0.425)	0.376
193	16.08	0.13	0.100	(0.097)	0.090	0.010
194	16.17	0.13	0.100	(0.096)	0.090	0.010
195	16.25	0.13	0.100	(0.096)	0.090	0.010
196	16.33	0.13	0.100	(0.095)	0.090	0.010
197	16.42	0.13	0.100	(0.095)	0.090	0.010
198	16.50	0.13	0.100	(0.094)	0.090	0.010
199	16.58	0.10	0.075	(0.094)	0.067	0.007
200	16.67	0.10	0.075	(0.093)	0.067	0.007
201	16.75	0.10	0.075	(0.093)	0.067	0.007
202	16.83	0.10	0.075	(0.092)	0.067	0.007
203	16.92	0.10	0.075	(0.092)	0.067	0.007
204	17.00	0.10	0.075	(0.091)	0.067	0.007
205	17.08	0.17	0.124	0.091	(0.112)	0.033
206	17.17	0.17	0.124	0.090	(0.112)	0.034
207	17.25	0.17	0.124	0.090	(0.112)	0.034
208	17.33	0.17	0.124	0.090	(0.112)	0.035
209	17.42	0.17	0.124	0.089	(0.112)	0.035
210	17.50	0.17	0.124	0.089	(0.112)	0.036
211	17.58	0.17	0.124	0.088	(0.112)	0.036
212	17.67	0.17	0.124	0.088	(0.112)	0.037
213	17.75	0.17	0.124	0.087	(0.112)	0.037
214	17.83	0.13	0.100	0.087	(0.090)	0.013
215	17.92	0.13	0.100	0.086	(0.090)	0.013
216	18.00	0.13	0.100	0.086	(0.090)	0.013
217	18.08	0.13	0.100	0.086	(0.090)	0.014
218	18.17	0.13	0.100	0.085	(0.090)	0.014
219	18.25	0.13	0.100	0.085	(0.090)	0.015
220	18.33	0.13	0.100	0.084	(0.090)	0.015
221	18.42	0.13	0.100	0.084	(0.090)	0.016
222	18.50	0.13	0.100	0.084	(0.090)	0.016
223	18.58	0.10	0.075	(0.083)	0.067	0.007
224	18.67	0.10	0.075	(0.083)	0.067	0.007
225	18.75	0.10	0.075	(0.082)	0.067	0.007
226	18.83	0.07	0.050	(0.082)	0.045	0.005
227	18.92	0.07	0.050	(0.082)	0.045	0.005
228	19.00	0.07	0.050	(0.081)	0.045	0.005
229	19.08	0.10	0.075	(0.081)	0.067	0.007
230	19.17	0.10	0.075	(0.080)	0.067	0.007
231	19.25	0.10	0.075	(0.080)	0.067	0.007
232	19.33	0.13	0.100	0.080	(0.090)	0.020
233	19.42	0.13	0.100	0.079	(0.090)	0.020
234	19.50	0.13	0.100	0.079	(0.090)	0.021
235	19.58	0.10	0.075	(0.079)	0.067	0.007
236	19.67	0.10	0.075	(0.078)	0.067	0.007
237	19.75	0.10	0.075	(0.078)	0.067	0.007
238	19.83	0.07	0.050	(0.078)	0.045	0.005
239	19.92	0.07	0.050	(0.077)	0.045	0.005
240	20.00	0.07	0.050	(0.077)	0.045	0.005
241	20.08	0.10	0.075	(0.076)	0.067	0.007
242	20.17	0.10	0.075	(0.076)	0.067	0.007
243	20.25	0.10	0.075	(0.076)	0.067	0.007
244	20.33	0.10	0.075	(0.075)	0.067	0.007
245	20.42	0.10	0.075	(0.075)	0.067	0.007
246	20.50	0.10	0.075	(0.075)	0.067	0.007
247	20.58	0.10	0.075	(0.075)	0.067	0.007
248	20.67	0.10	0.075	(0.074)	0.067	0.007
249	20.75	0.10	0.075	(0.074)	0.067	0.007
250	20.83	0.07	0.050	(0.074)	0.045	0.005
251	20.92	0.07	0.050	(0.073)	0.045	0.005
252	21.00	0.07	0.050	(0.073)	0.045	0.005

253	21.08	0.10	0.075	(0.073)	0.067	0.007
254	21.17	0.10	0.075	(0.072)	0.067	0.007
255	21.25	0.10	0.075	(0.072)	0.067	0.007
256	21.33	0.07	0.050	(0.072)	0.045	0.005
257	21.42	0.07	0.050	(0.072)	0.045	0.005
258	21.50	0.07	0.050	(0.071)	0.045	0.005
259	21.58	0.10	0.075	(0.071)	0.067	0.007
260	21.67	0.10	0.075	(0.071)	0.067	0.007
261	21.75	0.10	0.075	(0.071)	0.067	0.007
262	21.83	0.07	0.050	(0.070)	0.045	0.005
263	21.92	0.07	0.050	(0.070)	0.045	0.005
264	22.00	0.07	0.050	(0.070)	0.045	0.005
265	22.08	0.10	0.075	(0.070)	0.067	0.007
266	22.17	0.10	0.075	(0.069)	0.067	0.007
267	22.25	0.10	0.075	(0.069)	0.067	0.007
268	22.33	0.07	0.050	(0.069)	0.045	0.005
269	22.42	0.07	0.050	(0.069)	0.045	0.005
270	22.50	0.07	0.050	(0.069)	0.045	0.005
271	22.58	0.07	0.050	(0.068)	0.045	0.005
272	22.67	0.07	0.050	(0.068)	0.045	0.005
273	22.75	0.07	0.050	(0.068)	0.045	0.005
274	22.83	0.07	0.050	(0.068)	0.045	0.005
275	22.92	0.07	0.050	(0.068)	0.045	0.005
276	23.00	0.07	0.050	(0.067)	0.045	0.005
277	23.08	0.07	0.050	(0.067)	0.045	0.005
278	23.17	0.07	0.050	(0.067)	0.045	0.005
279	23.25	0.07	0.050	(0.067)	0.045	0.005
280	23.33	0.07	0.050	(0.067)	0.045	0.005
281	23.42	0.07	0.050	(0.067)	0.045	0.005
282	23.50	0.07	0.050	(0.067)	0.045	0.005
283	23.58	0.07	0.050	(0.067)	0.045	0.005
284	23.67	0.07	0.050	(0.066)	0.045	0.005
285	23.75	0.07	0.050	(0.066)	0.045	0.005
286	23.83	0.07	0.050	(0.066)	0.045	0.005
287	23.92	0.07	0.050	(0.066)	0.045	0.005
288	24.00	0.07	0.050	(0.066)	0.045	0.005

(Loss Rate Not Used)

Sum = 100.0 Sum = 44.4

Flood volume = Effective rainfall 3.70(In)
times area 3.8(Ac.)/[(In)/(Ft.)] = 1.2(Ac.Ft)
Total soil loss = 2.52(In)
Total soil loss = 0.787(Ac.Ft)
Total rainfall = 6.22(In)
Flood volume = 50388.4 Cubic Feet
Total soil loss = 34280.8 Cubic Feet

Peak flow rate of this hydrograph = 2.535(CFS)

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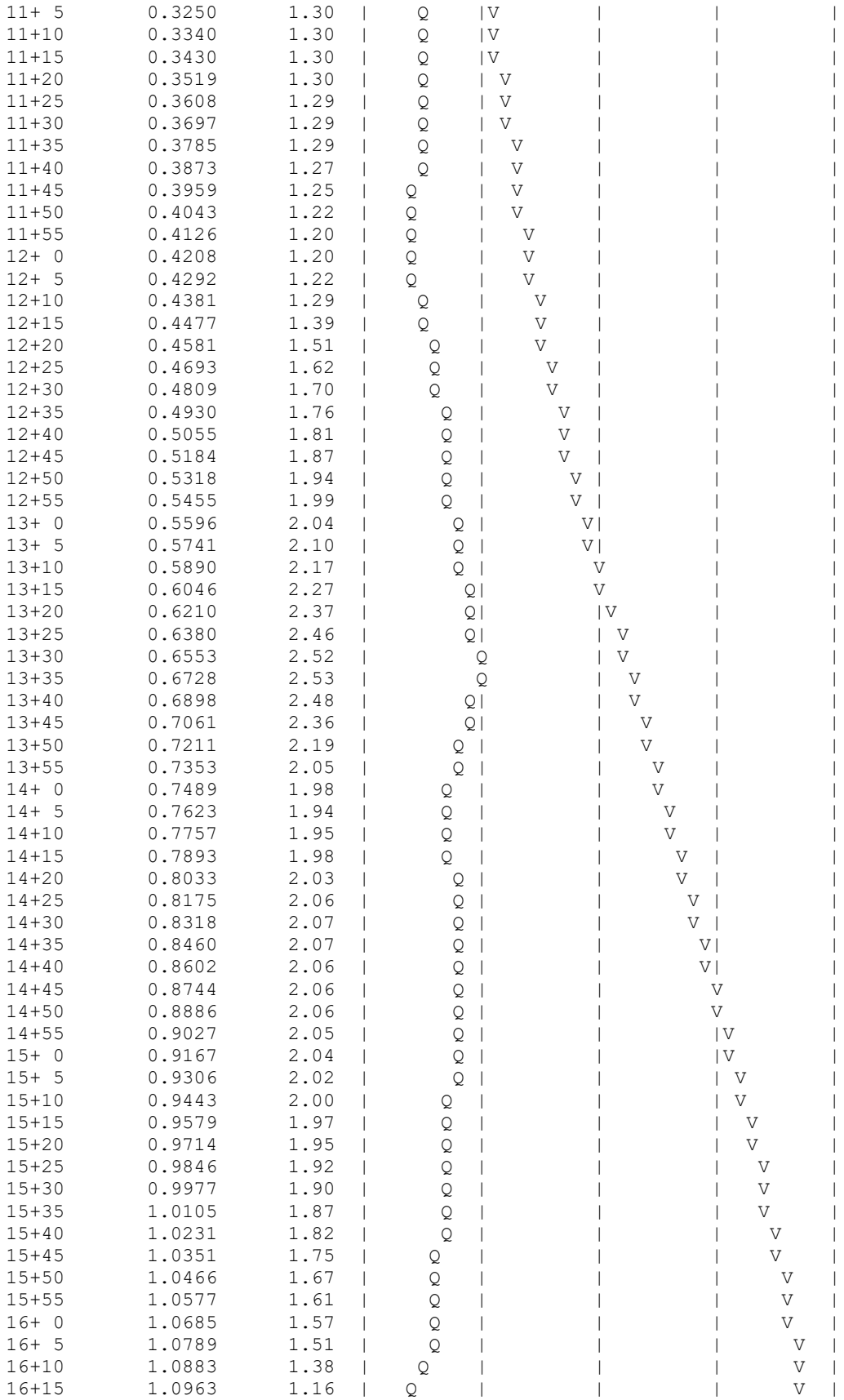
24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0000	0.00	Q	|	|	|	|
0+10	0.0000	0.00	Q	|	|	|	|
0+15	0.0000	0.00	Q	|	|	|	|
0+20	0.0001	0.01	Q	|	|	|	|
0+25	0.0002	0.01	Q	|	|	|	|
0+30	0.0003	0.02	Q	|	|	|	|

0+35	0.0004	0.02	Q	|	|	|	|
0+40	0.0006	0.02	Q	|	|	|	|
0+45	0.0007	0.02	Q	|	|	|	|
0+50	0.0009	0.02	Q	|	|	|	|
0+55	0.0010	0.02	Q	|	|	|	|
1+ 0	0.0012	0.03	Q	|	|	|	|
1+ 5	0.0014	0.03	Q	|	|	|	|
1+10	0.0016	0.03	Q	|	|	|	|
1+15	0.0018	0.03	Q	|	|	|	|
1+20	0.0020	0.03	Q	|	|	|	|
1+25	0.0022	0.03	Q	|	|	|	|
1+30	0.0024	0.03	Q	|	|	|	|
1+35	0.0026	0.03	Q	|	|	|	|
1+40	0.0028	0.03	Q	|	|	|	|
1+45	0.0030	0.03	Q	|	|	|	|
1+50	0.0032	0.03	Q	|	|	|	|
1+55	0.0034	0.03	Q	|	|	|	|
2+ 0	0.0036	0.03	Q	|	|	|	|
2+ 5	0.0038	0.03	Q	|	|	|	|
2+10	0.0040	0.03	Q	|	|	|	|
2+15	0.0043	0.03	Q	|	|	|	|
2+20	0.0045	0.04	Q	|	|	|	|
2+25	0.0047	0.04	Q	|	|	|	|
2+30	0.0050	0.04	Q	|	|	|	|
2+35	0.0052	0.04	Q	|	|	|	|
2+40	0.0055	0.04	Q	|	|	|	|
2+45	0.0058	0.04	Q	|	|	|	|
2+50	0.0060	0.04	Q	|	|	|	|
2+55	0.0063	0.04	Q	|	|	|	|
3+ 0	0.0066	0.04	Q	|	|	|	|
3+ 5	0.0069	0.04	Q	|	|	|	|
3+10	0.0072	0.04	Q	|	|	|	|
3+15	0.0075	0.04	Q	|	|	|	|
3+20	0.0079	0.05	Q	|	|	|	|
3+25	0.0082	0.05	Q	|	|	|	|
3+30	0.0085	0.05	Q	|	|	|	|
3+35	0.0088	0.05	Q	|	|	|	|
3+40	0.0091	0.05	Q	|	|	|	|
3+45	0.0094	0.05	Q	|	|	|	|
3+50	0.0098	0.05	Q	|	|	|	|
3+55	0.0101	0.05	Q	|	|	|	|
4+ 0	0.0104	0.05	Q	|	|	|	|
4+ 5	0.0108	0.05	Q	|	|	|	|
4+10	0.0111	0.05	Q	|	|	|	|
4+15	0.0115	0.05	Q	|	|	|	|
4+20	0.0119	0.05	Q	|	|	|	|
4+25	0.0122	0.06	Q	|	|	|	|
4+30	0.0126	0.06	Q	|	|	|	|
4+35	0.0130	0.06	Q	|	|	|	|
4+40	0.0135	0.06	Q	|	|	|	|
4+45	0.0139	0.06	Q	|	|	|	|
4+50	0.0143	0.06	Q	|	|	|	|
4+55	0.0147	0.06	Q	|	|	|	|
5+ 0	0.0152	0.07	Q	|	|	|	|
5+ 5	0.0157	0.07	Q	|	|	|	|
5+10	0.0161	0.07	Q	|	|	|	|
5+15	0.0166	0.07	Q	|	|	|	|
5+20	0.0170	0.06	Q	|	|	|	|
5+25	0.0174	0.06	Q	|	|	|	|
5+30	0.0179	0.06	Q	|	|	|	|
5+35	0.0183	0.06	Q	|	|	|	|
5+40	0.0188	0.07	Q	|	|	|	|
5+45	0.0192	0.07	Q	|	|	|	|

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 5+50       0.0197      0.07  Q          |          |          |          |
 5+55       0.0202      0.07  Q          |          |          |          |
 6+ 0       0.0208      0.08  Q          |          |          |          |
 6+ 5       0.0213      0.08  Q          |          |          |          |
 6+10       0.0220      0.09  Q          |          |          |          |
 6+15       0.0227      0.11  Q          |          |          |          |
 6+20       0.0236      0.13  Q          |          |          |          |
 6+25       0.0246      0.15  Q          |          |          |          |
 6+30       0.0257      0.16  Q          |          |          |          |
 6+35       0.0268      0.17  Q          |          |          |          |
 6+40       0.0281      0.18  Q          |          |          |          |
 6+45       0.0295      0.20  QV         |          |          |          |
 6+50       0.0310      0.22  QV         |          |          |          |
 6+55       0.0327      0.24  QV         |          |          |          |
 7+ 0       0.0345      0.26  |Q         |          |          |          |
 7+ 5       0.0363      0.27  |Q         |          |          |          |
 7+10       0.0382      0.27  |Q         |          |          |          |
 7+15       0.0401      0.28  |Q         |          |          |          |
 7+20       0.0421      0.29  |Q         |          |          |          |
 7+25       0.0442      0.30  |Q         |          |          |          |
 7+30       0.0464      0.32  |Q         |          |          |          |
 7+35       0.0488      0.35  |Q         |          |          |          |
 7+40       0.0514      0.37  |Q         |          |          |          |
 7+45       0.0542      0.40  |Q         |          |          |          |
 7+50       0.0571      0.43  |Q         |          |          |          |
 7+55       0.0603      0.46  |QV        |          |          |          |
 8+ 0       0.0636      0.49  |QV        |          |          |          |
 8+ 5       0.0672      0.52  | Q        |          |          |          |
 8+10       0.0711      0.56  | Q        |          |          |          |
 8+15       0.0753      0.61  | Q        |          |          |          |
 8+20       0.0798      0.65  | Q        |          |          |          |
 8+25       0.0845      0.69  | Q        |          |          |          |
 8+30       0.0895      0.72  | QV       |          |          |          |
 8+35       0.0946      0.74  | QV       |          |          |          |
 8+40       0.0998      0.76  |  Q       |          |          |          |
 8+45       0.1053      0.79  |  Q       |          |          |          |
 8+50       0.1109      0.82  |  Q       |          |          |          |
 8+55       0.1168      0.85  |  QV      |          |          |          |
 9+ 0       0.1229      0.88  |  QV      |          |          |          |
 9+ 5       0.1292      0.92  |  QV      |          |          |          |
 9+10       0.1358      0.96  |  QV      |          |          |          |
 9+15       0.1427      1.01  |   Q      |          |          |          |
 9+20       0.1500      1.06  |   QV     |          |          |          |
 9+25       0.1576      1.10  |   QV     |          |          |          |
 9+30       0.1655      1.14  |   QV     |          |          |          |
 9+35       0.1736      1.18  |   Q V    |          |          |          |
 9+40       0.1820      1.22  |   Q V    |          |          |          |
 9+45       0.1907      1.26  |    QV    |          |          |          |
 9+50       0.1996      1.29  |    QV    |          |          |          |
 9+55       0.2088      1.33  |    Q V   |          |          |          |
10+ 0       0.2182      1.37  |    Q V   |          |          |          |
10+ 5       0.2277      1.38  |    Q V   |          |          |          |
10+10       0.2371      1.36  |    Q  V  |          |          |          |
10+15       0.2459      1.28  |    Q  V  |          |          |          |
10+20       0.2540      1.18  |   Q   V  |          |          |          |
10+25       0.2615      1.09  |   Q    V|          |          |          |
10+30       0.2687      1.04  |   Q    V|          |          |          |
10+35       0.2758      1.03  |   Q    V|          |          |          |
10+40       0.2830      1.05  |   Q    V|          |          |          |
10+45       0.2906      1.10  |   Q     V          |          |          |
10+50       0.2987      1.18  |   Q     V          |          |          |
10+55       0.3073      1.24  |   Q     V          |          |          |
11+ 0       0.3161      1.28  |    Q    V          |          |          |
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16+20	1.1025	0.90	| Q	|	|	|	V |
16+25	1.1072	0.68	| Q	|	|	|	V |
16+30	1.1109	0.55	| Q	|	|	|	V |
16+35	1.1141	0.46	|Q	|	|	|	V |
16+40	1.1168	0.40	|Q	|	|	|	V |
16+45	1.1192	0.34	|Q	|	|	|	V |
16+50	1.1213	0.30	|Q	|	|	|	V |
16+55	1.1231	0.26	|Q	|	|	|	V |
17+ 0	1.1247	0.23	Q	|	|	|	V |
17+ 5	1.1261	0.21	Q	|	|	|	V |
17+10	1.1274	0.19	Q	|	|	|	V |
17+15	1.1287	0.19	Q	|	|	|	V|
17+20	1.1299	0.19	Q	|	|	|	V|
17+25	1.1312	0.19	Q	|	|	|	V|
17+30	1.1325	0.18	Q	|	|	|	V|
17+35	1.1337	0.18	Q	|	|	|	V|
17+40	1.1349	0.17	Q	|	|	|	V|
17+45	1.1360	0.17	Q	|	|	|	V|
17+50	1.1371	0.16	Q	|	|	|	V|
17+55	1.1382	0.15	Q	|	|	|	V|
18+ 0	1.1391	0.13	Q	|	|	|	V|
18+ 5	1.1398	0.11	Q	|	|	|	V|
18+10	1.1405	0.09	Q	|	|	|	V|
18+15	1.1410	0.09	Q	|	|	|	V|
18+20	1.1416	0.08	Q	|	|	|	V|
18+25	1.1421	0.07	Q	|	|	|	V|
18+30	1.1426	0.07	Q	|	|	|	V|
18+35	1.1430	0.06	Q	|	|	|	V|
18+40	1.1434	0.06	Q	|	|	|	V|
18+45	1.1438	0.06	Q	|	|	|	V|
18+50	1.1442	0.05	Q	|	|	|	V|
18+55	1.1445	0.04	Q	|	|	|	V|
19+ 0	1.1447	0.04	Q	|	|	|	V|
19+ 5	1.1450	0.04	Q	|	|	|	V|
19+10	1.1452	0.03	Q	|	|	|	V|
19+15	1.1454	0.03	Q	|	|	|	V|
19+20	1.1457	0.03	Q	|	|	|	V|
19+25	1.1459	0.04	Q	|	|	|	V|
19+30	1.1462	0.04	Q	|	|	|	V|
19+35	1.1466	0.05	Q	|	|	|	V|
19+40	1.1470	0.06	Q	|	|	|	V|
19+45	1.1473	0.05	Q	|	|	|	V|
19+50	1.1476	0.05	Q	|	|	|	V|
19+55	1.1479	0.04	Q	|	|	|	V|
20+ 0	1.1481	0.03	Q	|	|	|	V|
20+ 5	1.1484	0.03	Q	|	|	|	V|
20+10	1.1486	0.03	Q	|	|	|	V|
20+15	1.1488	0.03	Q	|	|	|	V|
20+20	1.1490	0.03	Q	|	|	|	V|
20+25	1.1492	0.03	Q	|	|	|	V|
20+30	1.1494	0.03	Q	|	|	|	V|
20+35	1.1496	0.03	Q	|	|	|	V|
20+40	1.1498	0.03	Q	|	|	|	V|
20+45	1.1500	0.03	Q	|	|	|	V|
20+50	1.1502	0.03	Q	|	|	|	V|
20+55	1.1504	0.03	Q	|	|	|	V|
21+ 0	1.1505	0.03	Q	|	|	|	V|
21+ 5	1.1507	0.02	Q	|	|	|	V|
21+10	1.1509	0.02	Q	|	|	|	V|
21+15	1.1510	0.02	Q	|	|	|	V|
21+20	1.1512	0.03	Q	|	|	|	V|
21+25	1.1514	0.03	Q	|	|	|	V|
21+30	1.1516	0.02	Q	|	|	|	V|

21+35	1.1517	0.02	Q	|	|	|	V|
21+40	1.1519	0.02	Q	|	|	|	V|
21+45	1.1521	0.02	Q	|	|	|	V|
21+50	1.1522	0.02	Q	|	|	|	V|
21+55	1.1524	0.03	Q	|	|	|	V|
22+ 0	1.1526	0.02	Q	|	|	|	V|
22+ 5	1.1527	0.02	Q	|	|	|	V|
22+10	1.1529	0.02	Q	|	|	|	V|
22+15	1.1530	0.02	Q	|	|	|	V|
22+20	1.1532	0.02	Q	|	|	|	V|
22+25	1.1534	0.02	Q	|	|	|	V|
22+30	1.1535	0.02	Q	|	|	|	V|
22+35	1.1537	0.02	Q	|	|	|	V|
22+40	1.1538	0.02	Q	|	|	|	V|
22+45	1.1540	0.02	Q	|	|	|	V|
22+50	1.1541	0.02	Q	|	|	|	V|
22+55	1.1543	0.02	Q	|	|	|	V|
23+ 0	1.1544	0.02	Q	|	|	|	V|
23+ 5	1.1545	0.02	Q	|	|	|	V|
23+10	1.1547	0.02	Q	|	|	|	V|
23+15	1.1548	0.02	Q	|	|	|	V|
23+20	1.1549	0.02	Q	|	|	|	V|
23+25	1.1551	0.02	Q	|	|	|	V|
23+30	1.1552	0.02	Q	|	|	|	V|
23+35	1.1553	0.02	Q	|	|	|	V|
23+40	1.1555	0.02	Q	|	|	|	V|
23+45	1.1556	0.02	Q	|	|	|	V|
23+50	1.1557	0.02	Q	|	|	|	V|
23+55	1.1559	0.02	Q	|	|	|	V|
24+ 0	1.1560	0.02	Q	|	|	|	V|
24+ 5	1.1561	0.02	Q	|	|	|	V|
24+10	1.1562	0.02	Q	|	|	|	V|
24+15	1.1563	0.01	Q	|	|	|	V|
24+20	1.1564	0.01	Q	|	|	|	V|
24+25	1.1565	0.01	Q	|	|	|	V|
24+30	1.1565	0.01	Q	|	|	|	V|
24+35	1.1566	0.01	Q	|	|	|	V|
24+40	1.1566	0.00	Q	|	|	|	V|
24+45	1.1566	0.00	Q	|	|	|	V|
24+50	1.1566	0.00	Q	|	|	|	V|
24+55	1.1566	0.00	Q	|	|	|	V|
25+ 0	1.1567	0.00	Q	|	|	|	V|
25+ 5	1.1567	0.00	Q	|	|	|	V|
25+10	1.1567	0.00	Q	|	|	|	V|
25+15	1.1567	0.00	Q	|	|	|	V|
25+20	1.1567	0.00	Q	|	|	|	V|
25+25	1.1567	0.00	Q	|	|	|	V|
25+30	1.1567	0.00	Q	|	|	|	V|
25+35	1.1567	0.00	Q	|	|	|	V|
25+40	1.1567	0.00	Q	|	|	|	V|
25+45	1.1567	0.00	Q	|	|	|	V|
25+50	1.1567	0.00	Q	|	|	|	V|
25+55	1.1567	0.00	Q	|	|	|	V|
26+ 0	1.1568	0.00	Q	|	|	|	V|
26+ 5	1.1568	0.00	Q	|	|	|	V|
26+10	1.1568	0.00	Q	|	|	|	V|
26+15	1.1568	0.00	Q	|	|	|	V|
26+20	1.1568	0.00	Q	|	|	|	V|
26+25	1.1568	0.00	Q	|	|	|	V|
26+30	1.1568	0.00	Q	|	|	|	V

PROPOSED CONDITION

Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2018 Version 9.0
Rational Hydrology Study Date: 02/20/21 File:RATPR2YR.out

RATIONAL METHOD FOR PROPOSED CONDITION - 2-YR STORM

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

Program License Serial Number 6497

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 2.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Calimesa] area used.
10 year storm 10 minute intensity = 2.440(In/Hr)
10 year storm 60 minute intensity = 0.910(In/Hr)
100 year storm 10 minute intensity = 3.620(In/Hr)
100 year storm 60 minute intensity = 1.350(In/Hr)

Storm event year = 2.0
Calculated rainfall intensity data:
1 hour intensity = 0.602(In/Hr)
Slope of intensity duration curve = 0.5500

```
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        1.000 to Point/Station        2.000
**** INITIAL AREA EVALUATION ****
_____________________________________________________________________________
Initial area flow distance =   567.000(Ft.)
Top (of initial area) elevation =  2393.500(Ft.)
Bottom (of initial area) elevation =  2388.850(Ft.)
Difference in elevation =     4.650(Ft.)
Slope =    0.00820  s(percent)=       0.82
TC = k(0.300)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =    9.903 min.
Rainfall intensity =      1.623(In/Hr) for a     2.0 year storm
COMMERCIAL subarea type
Runoff Coefficient = 0.865
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  56.00
Pervious area fraction =  0.100; Impervious fraction =  0.900
Initial subarea runoff =      5.262(CFS)
Total initial stream area =        3.750(Ac.)
Pervious area fraction = 0.100
End of computations, total study area =            3.75 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 0.100
Area averaged RI index number =  56.0
```

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2018, Version 9.0
Study date 02/22/21 File: UHYDPR2YR242.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6497

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

UNIT HYDROGRAPH FOR PROPOSED CONDITION - 2 YR STORM

Drainage Area = 3.75(Ac.) = 0.006 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 3.75(Ac.) = 0.006 Sq. Mi.
USER Entry of lag time in hours
Lag time = 0.167 Hr.
Lag time = 10.00 Min.
25% of lag time = 2.50 Min.
40% of lag time = 4.00 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
3.75	2.58	9.68

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
3.75	6.22	23.32

STORM EVENT (YEAR) = 2.00
Area Averaged 2-Year Rainfall = 2.580(In)
Area Averaged 100-Year Rainfall = 6.220(In)

Point rain (area averaged) = 2.580(In)
Areal adjustment factor = 100.00 %
Adjusted average point rain = 2.580(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
3.750	56.00	0.900

Total Area Entered = 3.75(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	56.0	0.511	0.900	0.097	1.000	0.097
					Sum (F) =	0.097

Area averaged mean soil loss (F) (In/Hr) = 0.097
Minimum soil loss rate ((In/Hr)) = 0.049
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.180

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	49.990	6.123	0.231
2	0.167	99.980	26.141	0.988
3	0.250	149.970	28.851	1.090
4	0.333	199.960	12.959	0.490
5	0.417	249.950	6.796	0.257
6	0.500	299.940	4.726	0.179
7	0.583	349.930	3.400	0.129
8	0.667	399.920	2.601	0.098
9	0.750	449.910	1.901	0.072
10	0.833	499.900	1.550	0.059
11	0.917	549.890	1.301	0.049
12	1.000	599.880	1.000	0.038
13	1.083	649.870	0.800	0.030
14	1.167	699.860	0.600	0.023
15	1.250	749.850	0.500	0.019
16	1.333	799.840	0.500	0.019
17	1.417	849.830	0.252	0.010
		Sum =	100.000 Sum=	3.779

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.021	(0.172)	0.004	0.017
2	0.17	0.07	0.021	(0.171)	0.004	0.017
3	0.25	0.07	0.021	(0.171)	0.004	0.017
4	0.33	0.10	0.031	(0.170)	0.006	0.025
5	0.42	0.10	0.031	(0.169)	0.006	0.025
6	0.50	0.10	0.031	(0.169)	0.006	0.025
7	0.58	0.10	0.031	(0.168)	0.006	0.025
8	0.67	0.10	0.031	(0.167)	0.006	0.025
9	0.75	0.10	0.031	(0.167)	0.006	0.025
10	0.83	0.13	0.041	(0.166)	0.007	0.034
11	0.92	0.13	0.041	(0.165)	0.007	0.034
12	1.00	0.13	0.041	(0.165)	0.007	0.034
13	1.08	0.10	0.031	(0.164)	0.006	0.025
14	1.17	0.10	0.031	(0.163)	0.006	0.025

15	1.25	0.10	0.031	(0.163)	0.006	0.025
16	1.33	0.10	0.031	(0.162)	0.006	0.025
17	1.42	0.10	0.031	(0.162)	0.006	0.025
18	1.50	0.10	0.031	(0.161)	0.006	0.025
19	1.58	0.10	0.031	(0.160)	0.006	0.025
20	1.67	0.10	0.031	(0.160)	0.006	0.025
21	1.75	0.10	0.031	(0.159)	0.006	0.025
22	1.83	0.13	0.041	(0.158)	0.007	0.034
23	1.92	0.13	0.041	(0.158)	0.007	0.034
24	2.00	0.13	0.041	(0.157)	0.007	0.034
25	2.08	0.13	0.041	(0.156)	0.007	0.034
26	2.17	0.13	0.041	(0.156)	0.007	0.034
27	2.25	0.13	0.041	(0.155)	0.007	0.034
28	2.33	0.13	0.041	(0.155)	0.007	0.034
29	2.42	0.13	0.041	(0.154)	0.007	0.034
30	2.50	0.13	0.041	(0.153)	0.007	0.034
31	2.58	0.17	0.052	(0.153)	0.009	0.042
32	2.67	0.17	0.052	(0.152)	0.009	0.042
33	2.75	0.17	0.052	(0.151)	0.009	0.042
34	2.83	0.17	0.052	(0.151)	0.009	0.042
35	2.92	0.17	0.052	(0.150)	0.009	0.042
36	3.00	0.17	0.052	(0.150)	0.009	0.042
37	3.08	0.17	0.052	(0.149)	0.009	0.042
38	3.17	0.17	0.052	(0.148)	0.009	0.042
39	3.25	0.17	0.052	(0.148)	0.009	0.042
40	3.33	0.17	0.052	(0.147)	0.009	0.042
41	3.42	0.17	0.052	(0.146)	0.009	0.042
42	3.50	0.17	0.052	(0.146)	0.009	0.042
43	3.58	0.17	0.052	(0.145)	0.009	0.042
44	3.67	0.17	0.052	(0.145)	0.009	0.042
45	3.75	0.17	0.052	(0.144)	0.009	0.042
46	3.83	0.20	0.062	(0.143)	0.011	0.051
47	3.92	0.20	0.062	(0.143)	0.011	0.051
48	4.00	0.20	0.062	(0.142)	0.011	0.051
49	4.08	0.20	0.062	(0.142)	0.011	0.051
50	4.17	0.20	0.062	(0.141)	0.011	0.051
51	4.25	0.20	0.062	(0.140)	0.011	0.051
52	4.33	0.23	0.072	(0.140)	0.013	0.059
53	4.42	0.23	0.072	(0.139)	0.013	0.059
54	4.50	0.23	0.072	(0.139)	0.013	0.059
55	4.58	0.23	0.072	(0.138)	0.013	0.059
56	4.67	0.23	0.072	(0.137)	0.013	0.059
57	4.75	0.23	0.072	(0.137)	0.013	0.059
58	4.83	0.27	0.083	(0.136)	0.015	0.068
59	4.92	0.27	0.083	(0.136)	0.015	0.068
60	5.00	0.27	0.083	(0.135)	0.015	0.068
61	5.08	0.20	0.062	(0.134)	0.011	0.051
62	5.17	0.20	0.062	(0.134)	0.011	0.051
63	5.25	0.20	0.062	(0.133)	0.011	0.051
64	5.33	0.23	0.072	(0.133)	0.013	0.059
65	5.42	0.23	0.072	(0.132)	0.013	0.059
66	5.50	0.23	0.072	(0.132)	0.013	0.059
67	5.58	0.27	0.083	(0.131)	0.015	0.068
68	5.67	0.27	0.083	(0.130)	0.015	0.068
69	5.75	0.27	0.083	(0.130)	0.015	0.068
70	5.83	0.27	0.083	(0.129)	0.015	0.068
71	5.92	0.27	0.083	(0.129)	0.015	0.068
72	6.00	0.27	0.083	(0.128)	0.015	0.068
73	6.08	0.30	0.093	(0.128)	0.017	0.076
74	6.17	0.30	0.093	(0.127)	0.017	0.076
75	6.25	0.30	0.093	(0.126)	0.017	0.076
76	6.33	0.30	0.093	(0.126)	0.017	0.076
77	6.42	0.30	0.093	(0.125)	0.017	0.076

78	6.50	0.30	0.093	(0.125)	0.017	0.076
79	6.58	0.33	0.103	(0.124)	0.019	0.085
80	6.67	0.33	0.103	(0.124)	0.019	0.085
81	6.75	0.33	0.103	(0.123)	0.019	0.085
82	6.83	0.33	0.103	(0.122)	0.019	0.085
83	6.92	0.33	0.103	(0.122)	0.019	0.085
84	7.00	0.33	0.103	(0.121)	0.019	0.085
85	7.08	0.33	0.103	(0.121)	0.019	0.085
86	7.17	0.33	0.103	(0.120)	0.019	0.085
87	7.25	0.33	0.103	(0.120)	0.019	0.085
88	7.33	0.37	0.114	(0.119)	0.020	0.093
89	7.42	0.37	0.114	(0.119)	0.020	0.093
90	7.50	0.37	0.114	(0.118)	0.020	0.093
91	7.58	0.40	0.124	(0.118)	0.022	0.102
92	7.67	0.40	0.124	(0.117)	0.022	0.102
93	7.75	0.40	0.124	(0.116)	0.022	0.102
94	7.83	0.43	0.134	(0.116)	0.024	0.110
95	7.92	0.43	0.134	(0.115)	0.024	0.110
96	8.00	0.43	0.134	(0.115)	0.024	0.110
97	8.08	0.50	0.155	(0.114)	0.028	0.127
98	8.17	0.50	0.155	(0.114)	0.028	0.127
99	8.25	0.50	0.155	(0.113)	0.028	0.127
100	8.33	0.50	0.155	(0.113)	0.028	0.127
101	8.42	0.50	0.155	(0.112)	0.028	0.127
102	8.50	0.50	0.155	(0.112)	0.028	0.127
103	8.58	0.53	0.165	(0.111)	0.030	0.135
104	8.67	0.53	0.165	(0.111)	0.030	0.135
105	8.75	0.53	0.165	(0.110)	0.030	0.135
106	8.83	0.57	0.175	(0.110)	0.032	0.144
107	8.92	0.57	0.175	(0.109)	0.032	0.144
108	9.00	0.57	0.175	(0.109)	0.032	0.144
109	9.08	0.63	0.196	(0.108)	0.035	0.161
110	9.17	0.63	0.196	(0.108)	0.035	0.161
111	9.25	0.63	0.196	(0.107)	0.035	0.161
112	9.33	0.67	0.206	(0.107)	0.037	0.169
113	9.42	0.67	0.206	(0.106)	0.037	0.169
114	9.50	0.67	0.206	(0.105)	0.037	0.169
115	9.58	0.70	0.217	(0.105)	0.039	0.178
116	9.67	0.70	0.217	(0.104)	0.039	0.178
117	9.75	0.70	0.217	(0.104)	0.039	0.178
118	9.83	0.73	0.227	(0.103)	0.041	0.186
119	9.92	0.73	0.227	(0.103)	0.041	0.186
120	10.00	0.73	0.227	(0.102)	0.041	0.186
121	10.08	0.50	0.155	(0.102)	0.028	0.127
122	10.17	0.50	0.155	(0.101)	0.028	0.127
123	10.25	0.50	0.155	(0.101)	0.028	0.127
124	10.33	0.50	0.155	(0.101)	0.028	0.127
125	10.42	0.50	0.155	(0.100)	0.028	0.127
126	10.50	0.50	0.155	(0.100)	0.028	0.127
127	10.58	0.67	0.206	(0.099)	0.037	0.169
128	10.67	0.67	0.206	(0.099)	0.037	0.169
129	10.75	0.67	0.206	(0.098)	0.037	0.169
130	10.83	0.67	0.206	(0.098)	0.037	0.169
131	10.92	0.67	0.206	(0.097)	0.037	0.169
132	11.00	0.67	0.206	(0.097)	0.037	0.169
133	11.08	0.63	0.196	(0.096)	0.035	0.161
134	11.17	0.63	0.196	(0.096)	0.035	0.161
135	11.25	0.63	0.196	(0.095)	0.035	0.161
136	11.33	0.63	0.196	(0.095)	0.035	0.161
137	11.42	0.63	0.196	(0.094)	0.035	0.161
138	11.50	0.63	0.196	(0.094)	0.035	0.161
139	11.58	0.57	0.175	(0.093)	0.032	0.144
140	11.67	0.57	0.175	(0.093)	0.032	0.144

141	11.75	0.57	0.175	(0.092)	0.032	0.144
142	11.83	0.60	0.186	(0.092)	0.033	0.152
143	11.92	0.60	0.186	(0.092)	0.033	0.152
144	12.00	0.60	0.186	(0.091)	0.033	0.152
145	12.08	0.83	0.258	(0.091)	0.046	0.212
146	12.17	0.83	0.258	(0.090)	0.046	0.212
147	12.25	0.83	0.258	(0.090)	0.046	0.212
148	12.33	0.87	0.268	(0.089)	0.048	0.220
149	12.42	0.87	0.268	(0.089)	0.048	0.220
150	12.50	0.87	0.268	(0.088)	0.048	0.220
151	12.58	0.93	0.289	(0.088)	0.052	0.237
152	12.67	0.93	0.289	(0.087)	0.052	0.237
153	12.75	0.93	0.289	(0.087)	0.052	0.237
154	12.83	0.97	0.299	(0.087)	0.054	0.245
155	12.92	0.97	0.299	(0.086)	0.054	0.245
156	13.00	0.97	0.299	(0.086)	0.054	0.245
157	13.08	1.13	0.351	(0.085)	0.063	0.288
158	13.17	1.13	0.351	(0.085)	0.063	0.288
159	13.25	1.13	0.351	(0.084)	0.063	0.288
160	13.33	1.13	0.351	(0.084)	0.063	0.288
161	13.42	1.13	0.351	(0.084)	0.063	0.288
162	13.50	1.13	0.351	(0.083)	0.063	0.288
163	13.58	0.77	0.237	(0.083)	0.043	0.195
164	13.67	0.77	0.237	(0.082)	0.043	0.195
165	13.75	0.77	0.237	(0.082)	0.043	0.195
166	13.83	0.77	0.237	(0.081)	0.043	0.195
167	13.92	0.77	0.237	(0.081)	0.043	0.195
168	14.00	0.77	0.237	(0.081)	0.043	0.195
169	14.08	0.90	0.279	(0.080)	0.050	0.228
170	14.17	0.90	0.279	(0.080)	0.050	0.228
171	14.25	0.90	0.279	(0.079)	0.050	0.228
172	14.33	0.87	0.268	(0.079)	0.048	0.220
173	14.42	0.87	0.268	(0.079)	0.048	0.220
174	14.50	0.87	0.268	(0.078)	0.048	0.220
175	14.58	0.87	0.268	(0.078)	0.048	0.220
176	14.67	0.87	0.268	(0.077)	0.048	0.220
177	14.75	0.87	0.268	(0.077)	0.048	0.220
178	14.83	0.83	0.258	(0.077)	0.046	0.212
179	14.92	0.83	0.258	(0.076)	0.046	0.212
180	15.00	0.83	0.258	(0.076)	0.046	0.212
181	15.08	0.80	0.248	(0.075)	0.045	0.203
182	15.17	0.80	0.248	(0.075)	0.045	0.203
183	15.25	0.80	0.248	(0.075)	0.045	0.203
184	15.33	0.77	0.237	(0.074)	0.043	0.195
185	15.42	0.77	0.237	(0.074)	0.043	0.195
186	15.50	0.77	0.237	(0.073)	0.043	0.195
187	15.58	0.63	0.196	(0.073)	0.035	0.161
188	15.67	0.63	0.196	(0.073)	0.035	0.161
189	15.75	0.63	0.196	(0.072)	0.035	0.161
190	15.83	0.63	0.196	(0.072)	0.035	0.161
191	15.92	0.63	0.196	(0.072)	0.035	0.161
192	16.00	0.63	0.196	(0.071)	0.035	0.161
193	16.08	0.13	0.041	(0.071)	0.007	0.034
194	16.17	0.13	0.041	(0.071)	0.007	0.034
195	16.25	0.13	0.041	(0.070)	0.007	0.034
196	16.33	0.13	0.041	(0.070)	0.007	0.034
197	16.42	0.13	0.041	(0.069)	0.007	0.034
198	16.50	0.13	0.041	(0.069)	0.007	0.034
199	16.58	0.10	0.031	(0.069)	0.006	0.025
200	16.67	0.10	0.031	(0.068)	0.006	0.025
201	16.75	0.10	0.031	(0.068)	0.006	0.025
202	16.83	0.10	0.031	(0.068)	0.006	0.025
203	16.92	0.10	0.031	(0.067)	0.006	0.025

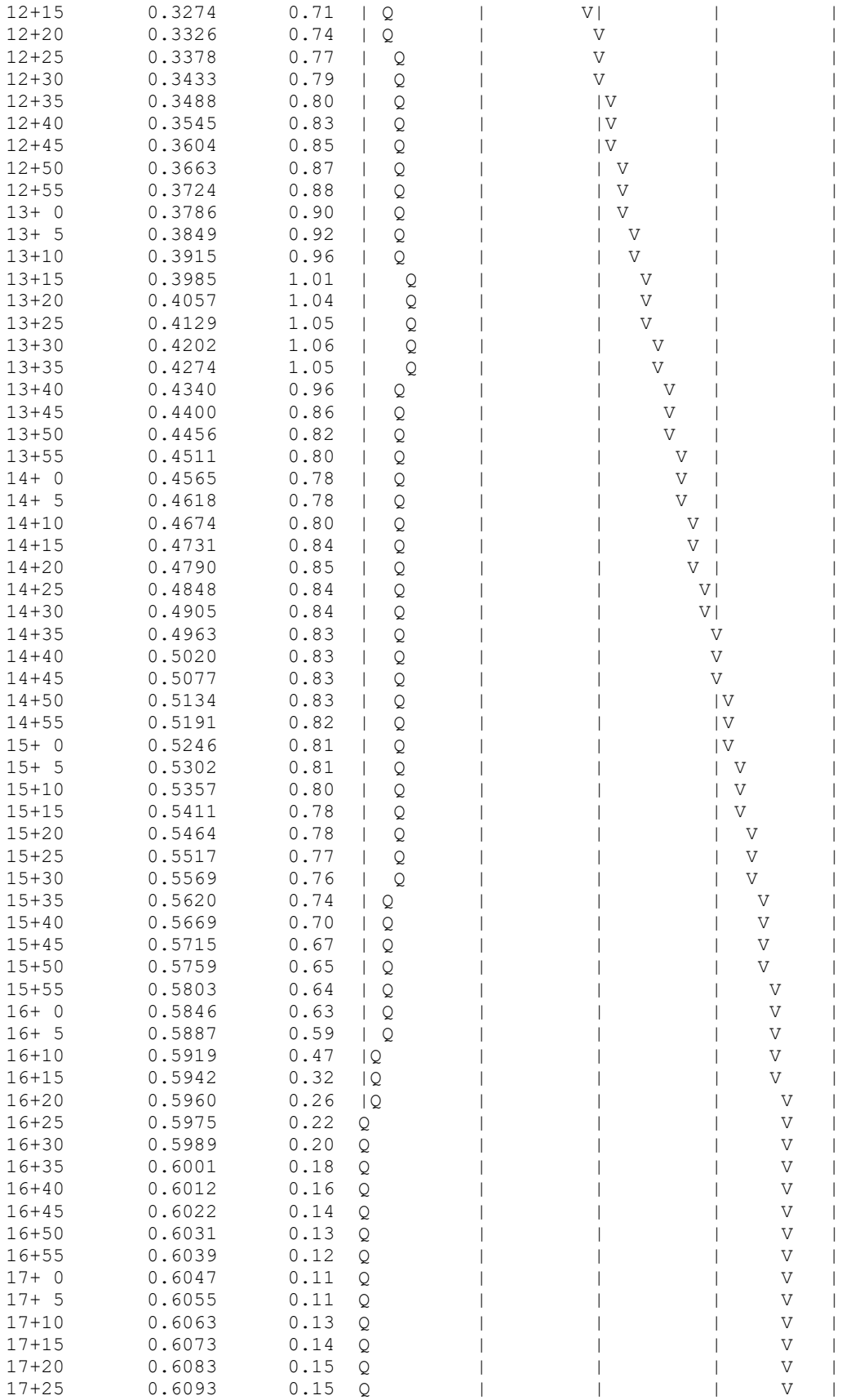
204	17.00	0.10	0.031	(0.067)	0.006	0.025
205	17.08	0.17	0.052	(0.067)	0.009	0.042
206	17.17	0.17	0.052	(0.066)	0.009	0.042
207	17.25	0.17	0.052	(0.066)	0.009	0.042
208	17.33	0.17	0.052	(0.066)	0.009	0.042
209	17.42	0.17	0.052	(0.065)	0.009	0.042
210	17.50	0.17	0.052	(0.065)	0.009	0.042
211	17.58	0.17	0.052	(0.065)	0.009	0.042
212	17.67	0.17	0.052	(0.064)	0.009	0.042
213	17.75	0.17	0.052	(0.064)	0.009	0.042
214	17.83	0.13	0.041	(0.064)	0.007	0.034
215	17.92	0.13	0.041	(0.063)	0.007	0.034
216	18.00	0.13	0.041	(0.063)	0.007	0.034
217	18.08	0.13	0.041	(0.063)	0.007	0.034
218	18.17	0.13	0.041	(0.063)	0.007	0.034
219	18.25	0.13	0.041	(0.062)	0.007	0.034
220	18.33	0.13	0.041	(0.062)	0.007	0.034
221	18.42	0.13	0.041	(0.062)	0.007	0.034
222	18.50	0.13	0.041	(0.061)	0.007	0.034
223	18.58	0.10	0.031	(0.061)	0.006	0.025
224	18.67	0.10	0.031	(0.061)	0.006	0.025
225	18.75	0.10	0.031	(0.060)	0.006	0.025
226	18.83	0.07	0.021	(0.060)	0.004	0.017
227	18.92	0.07	0.021	(0.060)	0.004	0.017
228	19.00	0.07	0.021	(0.060)	0.004	0.017
229	19.08	0.10	0.031	(0.059)	0.006	0.025
230	19.17	0.10	0.031	(0.059)	0.006	0.025
231	19.25	0.10	0.031	(0.059)	0.006	0.025
232	19.33	0.13	0.041	(0.058)	0.007	0.034
233	19.42	0.13	0.041	(0.058)	0.007	0.034
234	19.50	0.13	0.041	(0.058)	0.007	0.034
235	19.58	0.10	0.031	(0.058)	0.006	0.025
236	19.67	0.10	0.031	(0.057)	0.006	0.025
237	19.75	0.10	0.031	(0.057)	0.006	0.025
238	19.83	0.07	0.021	(0.057)	0.004	0.017
239	19.92	0.07	0.021	(0.057)	0.004	0.017
240	20.00	0.07	0.021	(0.056)	0.004	0.017
241	20.08	0.10	0.031	(0.056)	0.006	0.025
242	20.17	0.10	0.031	(0.056)	0.006	0.025
243	20.25	0.10	0.031	(0.056)	0.006	0.025
244	20.33	0.10	0.031	(0.055)	0.006	0.025
245	20.42	0.10	0.031	(0.055)	0.006	0.025
246	20.50	0.10	0.031	(0.055)	0.006	0.025
247	20.58	0.10	0.031	(0.055)	0.006	0.025
248	20.67	0.10	0.031	(0.054)	0.006	0.025
249	20.75	0.10	0.031	(0.054)	0.006	0.025
250	20.83	0.07	0.021	(0.054)	0.004	0.017
251	20.92	0.07	0.021	(0.054)	0.004	0.017
252	21.00	0.07	0.021	(0.054)	0.004	0.017
253	21.08	0.10	0.031	(0.053)	0.006	0.025
254	21.17	0.10	0.031	(0.053)	0.006	0.025
255	21.25	0.10	0.031	(0.053)	0.006	0.025
256	21.33	0.07	0.021	(0.053)	0.004	0.017
257	21.42	0.07	0.021	(0.053)	0.004	0.017
258	21.50	0.07	0.021	(0.052)	0.004	0.017
259	21.58	0.10	0.031	(0.052)	0.006	0.025
260	21.67	0.10	0.031	(0.052)	0.006	0.025
261	21.75	0.10	0.031	(0.052)	0.006	0.025
262	21.83	0.07	0.021	(0.052)	0.004	0.017
263	21.92	0.07	0.021	(0.051)	0.004	0.017
264	22.00	0.07	0.021	(0.051)	0.004	0.017
265	22.08	0.10	0.031	(0.051)	0.006	0.025
266	22.17	0.10	0.031	(0.051)	0.006	0.025

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267  22.25     0.10      0.031       (  0.051)       0.006        0.025
268  22.33     0.07      0.021       (  0.051)       0.004        0.017
269  22.42     0.07      0.021       (  0.050)       0.004        0.017
270  22.50     0.07      0.021       (  0.050)       0.004        0.017
271  22.58     0.07      0.021       (  0.050)       0.004        0.017
272  22.67     0.07      0.021       (  0.050)       0.004        0.017
273  22.75     0.07      0.021       (  0.050)       0.004        0.017
274  22.83     0.07      0.021       (  0.050)       0.004        0.017
275  22.92     0.07      0.021       (  0.050)       0.004        0.017
276  23.00     0.07      0.021       (  0.049)       0.004        0.017
277  23.08     0.07      0.021       (  0.049)       0.004        0.017
278  23.17     0.07      0.021       (  0.049)       0.004        0.017
279  23.25     0.07      0.021       (  0.049)       0.004        0.017
280  23.33     0.07      0.021       (  0.049)       0.004        0.017
281  23.42     0.07      0.021       (  0.049)       0.004        0.017
282  23.50     0.07      0.021       (  0.049)       0.004        0.017
283  23.58     0.07      0.021       (  0.049)       0.004        0.017
284  23.67     0.07      0.021       (  0.049)       0.004        0.017
285  23.75     0.07      0.021       (  0.049)       0.004        0.017
286  23.83     0.07      0.021       (  0.049)       0.004        0.017
287  23.92     0.07      0.021       (  0.049)       0.004        0.017
288  24.00     0.07      0.021       (  0.049)       0.004        0.017
            (Loss Rate Not Used)
    Sum =     100.0                                  Sum =    25.4
     Flood volume = Effective rainfall      2.12(In)
      times area       3.8(Ac.)/[(In)/(Ft.)] =       0.7(Ac.Ft)
     Total soil loss =      0.46(In)
     Total soil loss =     0.145(Ac.Ft)
     Total rainfall =      2.58(In)
     Flood volume =       28798.4 Cubic Feet
     Total soil loss =        6321.6 Cubic Feet
     ---------------------------------------------------------------------
      Peak flow rate of this hydrograph =      1.061(CFS)
     ---------------------------------------------------------------------
     +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                        24 - H O U R    S T O R M
                    R u n o f f     H y d r o g r a p h
     ---------------------------------------------------------------------
                Hydrograph in   5   Minute intervals ((CFS))

     ---------------------------------------------------------------------
Time(h+m) Volume Ac.Ft   Q(CFS)  0        2.5       5.0       7.5      10.0
-------------------------------------------------------------------------
  0+ 5       0.0000      0.00  Q         |         |         |         |
  0+10       0.0002      0.02  Q         |         |         |         |
  0+15       0.0004      0.04  Q         |         |         |         |
  0+20       0.0008      0.05  Q         |         |         |         |
  0+25       0.0012      0.06  Q         |         |         |         |
  0+30       0.0017      0.07  Q         |         |         |         |
  0+35       0.0023      0.08  Q         |         |         |         |
  0+40       0.0029      0.08  Q         |         |         |         |
  0+45       0.0035      0.09  Q         |         |         |         |
  0+50       0.0041      0.09  Q         |         |         |         |
  0+55       0.0048      0.10  Q         |         |         |         |
  1+ 0       0.0056      0.11  Q         |         |         |         |
  1+ 5       0.0063      0.11  Q         |         |         |         |
  1+10       0.0071      0.11  Q         |         |         |         |
  1+15       0.0078      0.10  Q         |         |         |         |
  1+20       0.0085      0.10  Q         |         |         |         |
  1+25       0.0092      0.10  Q         |         |         |         |
  1+30       0.0099      0.10  Q         |         |         |         |
  1+35       0.0105      0.10  Q         |         |         |         |
  1+40       0.0112      0.10  Q         |         |         |         |
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1+45	0.0119	0.10	Q	|	|	|	|
1+50	0.0125	0.10	Q	|	|	|	|
1+55	0.0133	0.11	Q	|	|	|	|
2+ 0	0.0141	0.12	Q	|	|	|	|
2+ 5	0.0149	0.12	Q	|	|	|	|
2+10	0.0158	0.12	Q	|	|	|	|
2+15	0.0166	0.12	QV	|	|	|	|
2+20	0.0175	0.12	QV	|	|	|	|
2+25	0.0183	0.13	QV	|	|	|	|
2+30	0.0192	0.13	QV	|	|	|	|
2+35	0.0201	0.13	QV	|	|	|	|
2+40	0.0210	0.14	QV	|	|	|	|
2+45	0.0220	0.15	QV	|	|	|	|
2+50	0.0231	0.15	QV	|	|	|	|
2+55	0.0241	0.15	QV	|	|	|	|
3+ 0	0.0252	0.16	QV	|	|	|	|
3+ 5	0.0263	0.16	QV	|	|	|	|
3+10	0.0274	0.16	QV	|	|	|	|
3+15	0.0284	0.16	QV	|	|	|	|
3+20	0.0295	0.16	QV	|	|	|	|
3+25	0.0306	0.16	QV	|	|	|	|
3+30	0.0317	0.16	QV	|	|	|	|
3+35	0.0328	0.16	QV	|	|	|	|
3+40	0.0339	0.16	Q V	|	|	|	|
3+45	0.0350	0.16	Q V	|	|	|	|
3+50	0.0361	0.16	Q V	|	|	|	|
3+55	0.0373	0.17	Q V	|	|	|	|
4+ 0	0.0386	0.18	Q V	|	|	|	|
4+ 5	0.0398	0.18	Q V	|	|	|	|
4+10	0.0411	0.19	Q V	|	|	|	|
4+15	0.0424	0.19	Q V	|	|	|	|
4+20	0.0437	0.19	Q V	|	|	|	|
4+25	0.0451	0.20	Q V	|	|	|	|
4+30	0.0465	0.21	Q V	|	|	|	|
4+35	0.0480	0.21	Q V	|	|	|	|
4+40	0.0495	0.22	Q V	|	|	|	|
4+45	0.0510	0.22	Q V	|	|	|	|
4+50	0.0525	0.22	Q V	|	|	|	|
4+55	0.0541	0.23	Q V	|	|	|	|
5+ 0	0.0558	0.24	Q V	|	|	|	|
5+ 5	0.0574	0.24	Q V	|	|	|	|
5+10	0.0590	0.23	Q V	|	|	|	|
5+15	0.0605	0.21	Q V	|	|	|	|
5+20	0.0619	0.21	Q V	|	|	|	|
5+25	0.0633	0.21	Q V	|	|	|	|
5+30	0.0648	0.22	Q V	|	|	|	|
5+35	0.0664	0.22	Q V	|	|	|	|
5+40	0.0680	0.23	Q V	|	|	|	|
5+45	0.0697	0.24	Q V	|	|	|	|
5+50	0.0713	0.25	Q V	|	|	|	|
5+55	0.0731	0.25	Q V	|	|	|	|
6+ 0	0.0748	0.25	|Q V	|	|	|	|
6+ 5	0.0765	0.25	|Q V	|	|	|	|
6+10	0.0784	0.26	|Q V	|	|	|	|
6+15	0.0802	0.27	|Q V	|	|	|	|
6+20	0.0821	0.28	|Q V	|	|	|	|
6+25	0.0841	0.28	|Q V	|	|	|	|
6+30	0.0860	0.28	|Q V	|	|	|	|
6+35	0.0880	0.29	|Q V	|	|	|	|
6+40	0.0900	0.30	|Q V	|	|	|	|
6+45	0.0921	0.31	|Q V	|	|	|	|
6+50	0.0943	0.31	|Q V	|	|	|	|
6+55	0.0964	0.31	|Q V	|	|	|	|

7+ 0	0.0986	0.31	Q V				
7+ 5	0.1008	0.32	Q V				
7+10	0.1029	0.32	Q V				
7+15	0.1051	0.32	Q V				
7+20	0.1073	0.32	Q V				
7+25	0.1096	0.33	Q V				
7+30	0.1119	0.34	Q V				
7+35	0.1143	0.35	Q V				
7+40	0.1168	0.36	Q V				
7+45	0.1193	0.37	Q V				
7+50	0.1219	0.37	Q V				
7+55	0.1245	0.39	Q V				
8+ 0	0.1272	0.40	Q V				
8+ 5	0.1300	0.41	Q V				
8+10	0.1330	0.43	Q V				
8+15	0.1361	0.45	Q V				
8+20	0.1392	0.46	Q V				
8+25	0.1424	0.46	Q V				
8+30	0.1456	0.47	Q V				
8+35	0.1489	0.47	Q V				
8+40	0.1522	0.48	Q V				
8+45	0.1556	0.49	Q V				
8+50	0.1591	0.50	Q V				
8+55	0.1626	0.51	Q V				
9+ 0	0.1662	0.52	Q V				
9+ 5	0.1699	0.53	Q V				
9+10	0.1737	0.56	Q V				
9+15	0.1777	0.58	Q V				
9+20	0.1817	0.59	Q V				
9+25	0.1859	0.60	Q V				
9+30	0.1901	0.62	Q V				
9+35	0.1944	0.62	Q V				
9+40	0.1988	0.64	Q V				
9+45	0.2033	0.65	Q V				
9+50	0.2078	0.66	Q V				
9+55	0.2125	0.67	Q V				
10+ 0	0.2172	0.68	Q V				
10+ 5	0.2218	0.68	Q V				
10+10	0.2261	0.62	Q V				
10+15	0.2299	0.56	Q V				
10+20	0.2336	0.53	Q V				
10+25	0.2372	0.52	Q V				
10+30	0.2407	0.51	Q V				
10+35	0.2442	0.51	Q V				
10+40	0.2480	0.55	Q V				
10+45	0.2521	0.59	Q V				
10+50	0.2562	0.61	Q V				
10+55	0.2605	0.62	Q V				
11+ 0	0.2648	0.62	Q V				
11+ 5	0.2691	0.62	Q V				
11+10	0.2733	0.62	Q V				
11+15	0.2776	0.61	Q V				
11+20	0.2818	0.61	Q V				
11+25	0.2859	0.61	Q V				
11+30	0.2901	0.61	Q V				
11+35	0.2943	0.60	Q V				
11+40	0.2983	0.59	Q V				
11+45	0.3023	0.57	Q V				
11+50	0.3062	0.56	Q V				
11+55	0.3101	0.57	Q V				
12+ 0	0.3140	0.57	Q V				
12+ 5	0.3181	0.59	Q V				
12+10	0.3225	0.65	Q V				



17+30	0.6104	0.15	Q	|	|	|	V |
17+35	0.6114	0.15	Q	|	|	|	V |
17+40	0.6125	0.16	Q	|	|	|	V |
17+45	0.6136	0.16	Q	|	|	|	V |
17+50	0.6146	0.15	Q	|	|	|	V |
17+55	0.6157	0.15	Q	|	|	|	V |
18+ 0	0.6166	0.14	Q	|	|	|	V |
18+ 5	0.6175	0.14	Q	|	|	|	V |
18+10	0.6185	0.13	Q	|	|	|	V |
18+15	0.6194	0.13	Q	|	|	|	V |
18+20	0.6203	0.13	Q	|	|	|	V |
18+25	0.6212	0.13	Q	|	|	|	V |
18+30	0.6221	0.13	Q	|	|	|	V |
18+35	0.6229	0.13	Q	|	|	|	V |
18+40	0.6238	0.12	Q	|	|	|	V |
18+45	0.6245	0.11	Q	|	|	|	V |
18+50	0.6252	0.10	Q	|	|	|	V |
18+55	0.6259	0.09	Q	|	|	|	V |
19+ 0	0.6264	0.08	Q	|	|	|	V |
19+ 5	0.6270	0.08	Q	|	|	|	V |
19+10	0.6275	0.08	Q	|	|	|	V |
19+15	0.6282	0.09	Q	|	|	|	V |
19+20	0.6288	0.09	Q	|	|	|	V |
19+25	0.6295	0.10	Q	|	|	|	V |
19+30	0.6303	0.11	Q	|	|	|	V |
19+35	0.6311	0.12	Q	|	|	|	V |
19+40	0.6319	0.11	Q	|	|	|	V |
19+45	0.6326	0.10	Q	|	|	|	V |
19+50	0.6333	0.10	Q	|	|	|	V |
19+55	0.6339	0.09	Q	|	|	|	V |
20+ 0	0.6344	0.08	Q	|	|	|	V |
20+ 5	0.6349	0.08	Q	|	|	|	V |
20+10	0.6355	0.08	Q	|	|	|	V |
20+15	0.6361	0.09	Q	|	|	|	V |
20+20	0.6367	0.09	Q	|	|	|	V |
20+25	0.6374	0.09	Q	|	|	|	V |
20+30	0.6380	0.09	Q	|	|	|	V |
20+35	0.6387	0.09	Q	|	|	|	V |
20+40	0.6393	0.09	Q	|	|	|	V |
20+45	0.6400	0.10	Q	|	|	|	V |
20+50	0.6406	0.09	Q	|	|	|	V |
20+55	0.6412	0.08	Q	|	|	|	V |
21+ 0	0.6417	0.08	Q	|	|	|	V |
21+ 5	0.6422	0.07	Q	|	|	|	V |
21+10	0.6428	0.08	Q	|	|	|	V |
21+15	0.6434	0.09	Q	|	|	|	V |
21+20	0.6440	0.09	Q	|	|	|	V |
21+25	0.6446	0.08	Q	|	|	|	V |
21+30	0.6451	0.07	Q	|	|	|	V|
21+35	0.6456	0.07	Q	|	|	|	V|
21+40	0.6461	0.08	Q	|	|	|	V|
21+45	0.6467	0.09	Q	|	|	|	V|
21+50	0.6473	0.09	Q	|	|	|	V|
21+55	0.6479	0.08	Q	|	|	|	V|
22+ 0	0.6484	0.07	Q	|	|	|	V|
22+ 5	0.6489	0.07	Q	|	|	|	V|
22+10	0.6494	0.08	Q	|	|	|	V|
22+15	0.6500	0.09	Q	|	|	|	V|
22+20	0.6506	0.09	Q	|	|	|	V|
22+25	0.6512	0.08	Q	|	|	|	V|
22+30	0.6517	0.07	Q	|	|	|	V|
22+35	0.6522	0.07	Q	|	|	|	V|
22+40	0.6527	0.07	Q	|	|	|	V|

22+45	0.6531	0.07	Q	|	|	|	V|
22+50	0.6536	0.07	Q	|	|	|	V|
22+55	0.6540	0.07	Q	|	|	|	V|
23+ 0	0.6545	0.07	Q	|	|	|	V|
23+ 5	0.6549	0.07	Q	|	|	|	V|
23+10	0.6554	0.06	Q	|	|	|	V|
23+15	0.6558	0.06	Q	|	|	|	V|
23+20	0.6563	0.06	Q	|	|	|	V|
23+25	0.6567	0.06	Q	|	|	|	V|
23+30	0.6571	0.06	Q	|	|	|	V|
23+35	0.6576	0.06	Q	|	|	|	V|
23+40	0.6580	0.06	Q	|	|	|	V|
23+45	0.6585	0.06	Q	|	|	|	V|
23+50	0.6589	0.06	Q	|	|	|	V|
23+55	0.6594	0.06	Q	|	|	|	V|
24+ 0	0.6598	0.06	Q	|	|	|	V|
24+ 5	0.6602	0.06	Q	|	|	|	V|
24+10	0.6605	0.04	Q	|	|	|	V|
24+15	0.6607	0.02	Q	|	|	|	V|
24+20	0.6608	0.02	Q	|	|	|	V|
24+25	0.6609	0.01	Q	|	|	|	V|
24+30	0.6609	0.01	Q	|	|	|	V|
24+35	0.6610	0.01	Q	|	|	|	V|
24+40	0.6610	0.01	Q	|	|	|	V|
24+45	0.6611	0.00	Q	|	|	|	V|
24+50	0.6611	0.00	Q	|	|	|	V|
24+55	0.6611	0.00	Q	|	|	|	V|
25+ 0	0.6611	0.00	Q	|	|	|	V|
25+ 5	0.6611	0.00	Q	|	|	|	V|
25+10	0.6611	0.00	Q	|	|	|	V|
25+15	0.6611	0.00	Q	|	|	|	V|
25+20	0.6611	0.00	Q	|	|	|	V

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/11/21 File: UHYDPR10YR2410.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6497

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

UNIT HYDROGRAPH FOR PROPOSED CONDITION - 10 YR STORM - 24 HRS

Drainage Area = 3.75(Ac.) = 0.006 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 3.75(Ac.) = 0.006 Sq. Mi.
USER Entry of lag time in hours
Lag time = 0.167 Hr.
Lag time = 10.00 Min.
25% of lag time = 2.50 Min.
40% of lag time = 4.00 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
3.75	2.58	9.68

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
3.75	6.22	23.32

STORM EVENT (YEAR) = 10.00
Area Averaged 2-Year Rainfall = 2.580(In)
Area Averaged 100-Year Rainfall = 6.220(In)

Point rain (area averaged) = 4.078(In)
Areal adjustment factor = 100.00 %
Adjusted average point rain = 4.077(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
3.750	56.00	0.900

Total Area Entered = 3.75(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	56.0	0.511	0.900	0.097	1.000	0.097
					Sum (F) =	0.097

Area averaged mean soil loss (F) (In/Hr) = 0.097
Minimum soil loss rate ((In/Hr)) = 0.049
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.180

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	49.990	6.123	0.231
2	0.167	99.980	26.141	0.988
3	0.250	149.970	28.851	1.090
4	0.333	199.960	12.959	0.490
5	0.417	249.950	6.796	0.257
6	0.500	299.940	4.726	0.179
7	0.583	349.930	3.400	0.129
8	0.667	399.920	2.601	0.098
9	0.750	449.910	1.901	0.072
10	0.833	499.900	1.550	0.059
11	0.917	549.890	1.301	0.049
12	1.000	599.880	1.000	0.038
13	1.083	649.870	0.800	0.030
14	1.167	699.860	0.600	0.023
15	1.250	749.850	0.500	0.019
16	1.333	799.840	0.500	0.019
17	1.417	849.830	0.252	0.010
		Sum =	100.000 Sum=	3.779

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.033	(0.172)	0.006	0.027
2	0.17	0.07	0.033	(0.171)	0.006	0.027
3	0.25	0.07	0.033	(0.171)	0.006	0.027
4	0.33	0.10	0.049	(0.170)	0.009	0.040
5	0.42	0.10	0.049	(0.169)	0.009	0.040
6	0.50	0.10	0.049	(0.169)	0.009	0.040
7	0.58	0.10	0.049	(0.168)	0.009	0.040
8	0.67	0.10	0.049	(0.167)	0.009	0.040
9	0.75	0.10	0.049	(0.167)	0.009	0.040
10	0.83	0.13	0.065	(0.166)	0.012	0.053
11	0.92	0.13	0.065	(0.165)	0.012	0.053
12	1.00	0.13	0.065	(0.165)	0.012	0.053
13	1.08	0.10	0.049	(0.164)	0.009	0.040
14	1.17	0.10	0.049	(0.163)	0.009	0.040

15	1.25	0.10	0.049	(0.163)	0.009	0.040
16	1.33	0.10	0.049	(0.162)	0.009	0.040
17	1.42	0.10	0.049	(0.162)	0.009	0.040
18	1.50	0.10	0.049	(0.161)	0.009	0.040
19	1.58	0.10	0.049	(0.160)	0.009	0.040
20	1.67	0.10	0.049	(0.160)	0.009	0.040
21	1.75	0.10	0.049	(0.159)	0.009	0.040
22	1.83	0.13	0.065	(0.158)	0.012	0.053
23	1.92	0.13	0.065	(0.158)	0.012	0.053
24	2.00	0.13	0.065	(0.157)	0.012	0.053
25	2.08	0.13	0.065	(0.156)	0.012	0.053
26	2.17	0.13	0.065	(0.156)	0.012	0.053
27	2.25	0.13	0.065	(0.155)	0.012	0.053
28	2.33	0.13	0.065	(0.155)	0.012	0.053
29	2.42	0.13	0.065	(0.154)	0.012	0.053
30	2.50	0.13	0.065	(0.153)	0.012	0.053
31	2.58	0.17	0.082	(0.153)	0.015	0.067
32	2.67	0.17	0.082	(0.152)	0.015	0.067
33	2.75	0.17	0.082	(0.151)	0.015	0.067
34	2.83	0.17	0.082	(0.151)	0.015	0.067
35	2.92	0.17	0.082	(0.150)	0.015	0.067
36	3.00	0.17	0.082	(0.150)	0.015	0.067
37	3.08	0.17	0.082	(0.149)	0.015	0.067
38	3.17	0.17	0.082	(0.148)	0.015	0.067
39	3.25	0.17	0.082	(0.148)	0.015	0.067
40	3.33	0.17	0.082	(0.147)	0.015	0.067
41	3.42	0.17	0.082	(0.146)	0.015	0.067
42	3.50	0.17	0.082	(0.146)	0.015	0.067
43	3.58	0.17	0.082	(0.145)	0.015	0.067
44	3.67	0.17	0.082	(0.145)	0.015	0.067
45	3.75	0.17	0.082	(0.144)	0.015	0.067
46	3.83	0.20	0.098	(0.143)	0.018	0.080
47	3.92	0.20	0.098	(0.143)	0.018	0.080
48	4.00	0.20	0.098	(0.142)	0.018	0.080
49	4.08	0.20	0.098	(0.142)	0.018	0.080
50	4.17	0.20	0.098	(0.141)	0.018	0.080
51	4.25	0.20	0.098	(0.140)	0.018	0.080
52	4.33	0.23	0.114	(0.140)	0.021	0.094
53	4.42	0.23	0.114	(0.139)	0.021	0.094
54	4.50	0.23	0.114	(0.139)	0.021	0.094
55	4.58	0.23	0.114	(0.138)	0.021	0.094
56	4.67	0.23	0.114	(0.137)	0.021	0.094
57	4.75	0.23	0.114	(0.137)	0.021	0.094
58	4.83	0.27	0.130	(0.136)	0.023	0.107
59	4.92	0.27	0.130	(0.136)	0.023	0.107
60	5.00	0.27	0.130	(0.135)	0.023	0.107
61	5.08	0.20	0.098	(0.134)	0.018	0.080
62	5.17	0.20	0.098	(0.134)	0.018	0.080
63	5.25	0.20	0.098	(0.133)	0.018	0.080
64	5.33	0.23	0.114	(0.133)	0.021	0.094
65	5.42	0.23	0.114	(0.132)	0.021	0.094
66	5.50	0.23	0.114	(0.132)	0.021	0.094
67	5.58	0.27	0.130	(0.131)	0.023	0.107
68	5.67	0.27	0.130	(0.130)	0.023	0.107
69	5.75	0.27	0.130	(0.130)	0.023	0.107
70	5.83	0.27	0.130	(0.129)	0.023	0.107
71	5.92	0.27	0.130	(0.129)	0.023	0.107
72	6.00	0.27	0.130	(0.128)	0.023	0.107
73	6.08	0.30	0.147	(0.128)	0.026	0.120
74	6.17	0.30	0.147	(0.127)	0.026	0.120
75	6.25	0.30	0.147	(0.126)	0.026	0.120
76	6.33	0.30	0.147	(0.126)	0.026	0.120
77	6.42	0.30	0.147	(0.125)	0.026	0.120

78	6.50	0.30	0.147	(0.125)	0.026	0.120
79	6.58	0.33	0.163	(0.124)	0.029	0.134
80	6.67	0.33	0.163	(0.124)	0.029	0.134
81	6.75	0.33	0.163	(0.123)	0.029	0.134
82	6.83	0.33	0.163	(0.122)	0.029	0.134
83	6.92	0.33	0.163	(0.122)	0.029	0.134
84	7.00	0.33	0.163	(0.121)	0.029	0.134
85	7.08	0.33	0.163	(0.121)	0.029	0.134
86	7.17	0.33	0.163	(0.120)	0.029	0.134
87	7.25	0.33	0.163	(0.120)	0.029	0.134
88	7.33	0.37	0.179	(0.119)	0.032	0.147
89	7.42	0.37	0.179	(0.119)	0.032	0.147
90	7.50	0.37	0.179	(0.118)	0.032	0.147
91	7.58	0.40	0.196	(0.118)	0.035	0.160
92	7.67	0.40	0.196	(0.117)	0.035	0.160
93	7.75	0.40	0.196	(0.116)	0.035	0.160
94	7.83	0.43	0.212	(0.116)	0.038	0.174
95	7.92	0.43	0.212	(0.115)	0.038	0.174
96	8.00	0.43	0.212	(0.115)	0.038	0.174
97	8.08	0.50	0.245	(0.114)	0.044	0.201
98	8.17	0.50	0.245	(0.114)	0.044	0.201
99	8.25	0.50	0.245	(0.113)	0.044	0.201
100	8.33	0.50	0.245	(0.113)	0.044	0.201
101	8.42	0.50	0.245	(0.112)	0.044	0.201
102	8.50	0.50	0.245	(0.112)	0.044	0.201
103	8.58	0.53	0.261	(0.111)	0.047	0.214
104	8.67	0.53	0.261	(0.111)	0.047	0.214
105	8.75	0.53	0.261	(0.110)	0.047	0.214
106	8.83	0.57	0.277	(0.110)	0.050	0.227
107	8.92	0.57	0.277	(0.109)	0.050	0.227
108	9.00	0.57	0.277	(0.109)	0.050	0.227
109	9.08	0.63	0.310	(0.108)	0.056	0.254
110	9.17	0.63	0.310	(0.108)	0.056	0.254
111	9.25	0.63	0.310	(0.107)	0.056	0.254
112	9.33	0.67	0.326	(0.107)	0.059	0.267
113	9.42	0.67	0.326	(0.106)	0.059	0.267
114	9.50	0.67	0.326	(0.105)	0.059	0.267
115	9.58	0.70	0.343	(0.105)	0.062	0.281
116	9.67	0.70	0.343	(0.104)	0.062	0.281
117	9.75	0.70	0.343	(0.104)	0.062	0.281
118	9.83	0.73	0.359	(0.103)	0.065	0.294
119	9.92	0.73	0.359	(0.103)	0.065	0.294
120	10.00	0.73	0.359	(0.102)	0.065	0.294
121	10.08	0.50	0.245	(0.102)	0.044	0.201
122	10.17	0.50	0.245	(0.101)	0.044	0.201
123	10.25	0.50	0.245	(0.101)	0.044	0.201
124	10.33	0.50	0.245	(0.101)	0.044	0.201
125	10.42	0.50	0.245	(0.100)	0.044	0.201
126	10.50	0.50	0.245	(0.100)	0.044	0.201
127	10.58	0.67	0.326	(0.099)	0.059	0.267
128	10.67	0.67	0.326	(0.099)	0.059	0.267
129	10.75	0.67	0.326	(0.098)	0.059	0.267
130	10.83	0.67	0.326	(0.098)	0.059	0.267
131	10.92	0.67	0.326	(0.097)	0.059	0.267
132	11.00	0.67	0.326	(0.097)	0.059	0.267
133	11.08	0.63	0.310	(0.096)	0.056	0.254
134	11.17	0.63	0.310	(0.096)	0.056	0.254
135	11.25	0.63	0.310	(0.095)	0.056	0.254
136	11.33	0.63	0.310	(0.095)	0.056	0.254
137	11.42	0.63	0.310	(0.094)	0.056	0.254
138	11.50	0.63	0.310	(0.094)	0.056	0.254
139	11.58	0.57	0.277	(0.093)	0.050	0.227
140	11.67	0.57	0.277	(0.093)	0.050	0.227

141	11.75	0.57	0.277	(0.092)	0.050	0.227
142	11.83	0.60	0.294	(0.092)	0.053	0.241
143	11.92	0.60	0.294	(0.092)	0.053	0.241
144	12.00	0.60	0.294	(0.091)	0.053	0.241
145	12.08	0.83	0.408	(0.091)	0.073	0.334
146	12.17	0.83	0.408	(0.090)	0.073	0.334
147	12.25	0.83	0.408	(0.090)	0.073	0.334
148	12.33	0.87	0.424	(0.089)	0.076	0.348
149	12.42	0.87	0.424	(0.089)	0.076	0.348
150	12.50	0.87	0.424	(0.088)	0.076	0.348
151	12.58	0.93	0.457	(0.088)	0.082	0.374
152	12.67	0.93	0.457	(0.087)	0.082	0.374
153	12.75	0.93	0.457	(0.087)	0.082	0.374
154	12.83	0.97	0.473	(0.087)	0.085	0.388
155	12.92	0.97	0.473	(0.086)	0.085	0.388
156	13.00	0.97	0.473	(0.086)	0.085	0.388
157	13.08	1.13	0.555	0.085	(0.100)	0.469
158	13.17	1.13	0.555	0.085	(0.100)	0.470
159	13.25	1.13	0.555	0.084	(0.100)	0.470
160	13.33	1.13	0.555	0.084	(0.100)	0.471
161	13.42	1.13	0.555	0.084	(0.100)	0.471
162	13.50	1.13	0.555	0.083	(0.100)	0.471
163	13.58	0.77	0.375	(0.083)	0.068	0.308
164	13.67	0.77	0.375	(0.082)	0.068	0.308
165	13.75	0.77	0.375	(0.082)	0.068	0.308
166	13.83	0.77	0.375	(0.081)	0.068	0.308
167	13.92	0.77	0.375	(0.081)	0.068	0.308
168	14.00	0.77	0.375	(0.081)	0.068	0.308
169	14.08	0.90	0.440	(0.080)	0.079	0.361
170	14.17	0.90	0.440	(0.080)	0.079	0.361
171	14.25	0.90	0.440	(0.079)	0.079	0.361
172	14.33	0.87	0.424	(0.079)	0.076	0.348
173	14.42	0.87	0.424	(0.079)	0.076	0.348
174	14.50	0.87	0.424	(0.078)	0.076	0.348
175	14.58	0.87	0.424	(0.078)	0.076	0.348
176	14.67	0.87	0.424	(0.077)	0.076	0.348
177	14.75	0.87	0.424	(0.077)	0.076	0.348
178	14.83	0.83	0.408	(0.077)	0.073	0.334
179	14.92	0.83	0.408	(0.076)	0.073	0.334
180	15.00	0.83	0.408	(0.076)	0.073	0.334
181	15.08	0.80	0.391	(0.075)	0.070	0.321
182	15.17	0.80	0.391	(0.075)	0.070	0.321
183	15.25	0.80	0.391	(0.075)	0.070	0.321
184	15.33	0.77	0.375	(0.074)	0.068	0.308
185	15.42	0.77	0.375	(0.074)	0.068	0.308
186	15.50	0.77	0.375	(0.073)	0.068	0.308
187	15.58	0.63	0.310	(0.073)	0.056	0.254
188	15.67	0.63	0.310	(0.073)	0.056	0.254
189	15.75	0.63	0.310	(0.072)	0.056	0.254
190	15.83	0.63	0.310	(0.072)	0.056	0.254
191	15.92	0.63	0.310	(0.072)	0.056	0.254
192	16.00	0.63	0.310	(0.071)	0.056	0.254
193	16.08	0.13	0.065	(0.071)	0.012	0.053
194	16.17	0.13	0.065	(0.071)	0.012	0.053
195	16.25	0.13	0.065	(0.070)	0.012	0.053
196	16.33	0.13	0.065	(0.070)	0.012	0.053
197	16.42	0.13	0.065	(0.069)	0.012	0.053
198	16.50	0.13	0.065	(0.069)	0.012	0.053
199	16.58	0.10	0.049	(0.069)	0.009	0.040
200	16.67	0.10	0.049	(0.068)	0.009	0.040
201	16.75	0.10	0.049	(0.068)	0.009	0.040
202	16.83	0.10	0.049	(0.068)	0.009	0.040
203	16.92	0.10	0.049	(0.067)	0.009	0.040

204	17.00	0.10	0.049	(0.067)	0.009	0.040
205	17.08	0.17	0.082	(0.067)	0.015	0.067
206	17.17	0.17	0.082	(0.066)	0.015	0.067
207	17.25	0.17	0.082	(0.066)	0.015	0.067
208	17.33	0.17	0.082	(0.066)	0.015	0.067
209	17.42	0.17	0.082	(0.065)	0.015	0.067
210	17.50	0.17	0.082	(0.065)	0.015	0.067
211	17.58	0.17	0.082	(0.065)	0.015	0.067
212	17.67	0.17	0.082	(0.064)	0.015	0.067
213	17.75	0.17	0.082	(0.064)	0.015	0.067
214	17.83	0.13	0.065	(0.064)	0.012	0.053
215	17.92	0.13	0.065	(0.063)	0.012	0.053
216	18.00	0.13	0.065	(0.063)	0.012	0.053
217	18.08	0.13	0.065	(0.063)	0.012	0.053
218	18.17	0.13	0.065	(0.063)	0.012	0.053
219	18.25	0.13	0.065	(0.062)	0.012	0.053
220	18.33	0.13	0.065	(0.062)	0.012	0.053
221	18.42	0.13	0.065	(0.062)	0.012	0.053
222	18.50	0.13	0.065	(0.061)	0.012	0.053
223	18.58	0.10	0.049	(0.061)	0.009	0.040
224	18.67	0.10	0.049	(0.061)	0.009	0.040
225	18.75	0.10	0.049	(0.060)	0.009	0.040
226	18.83	0.07	0.033	(0.060)	0.006	0.027
227	18.92	0.07	0.033	(0.060)	0.006	0.027
228	19.00	0.07	0.033	(0.060)	0.006	0.027
229	19.08	0.10	0.049	(0.059)	0.009	0.040
230	19.17	0.10	0.049	(0.059)	0.009	0.040
231	19.25	0.10	0.049	(0.059)	0.009	0.040
232	19.33	0.13	0.065	(0.058)	0.012	0.053
233	19.42	0.13	0.065	(0.058)	0.012	0.053
234	19.50	0.13	0.065	(0.058)	0.012	0.053
235	19.58	0.10	0.049	(0.058)	0.009	0.040
236	19.67	0.10	0.049	(0.057)	0.009	0.040
237	19.75	0.10	0.049	(0.057)	0.009	0.040
238	19.83	0.07	0.033	(0.057)	0.006	0.027
239	19.92	0.07	0.033	(0.057)	0.006	0.027
240	20.00	0.07	0.033	(0.056)	0.006	0.027
241	20.08	0.10	0.049	(0.056)	0.009	0.040
242	20.17	0.10	0.049	(0.056)	0.009	0.040
243	20.25	0.10	0.049	(0.056)	0.009	0.040
244	20.33	0.10	0.049	(0.055)	0.009	0.040
245	20.42	0.10	0.049	(0.055)	0.009	0.040
246	20.50	0.10	0.049	(0.055)	0.009	0.040
247	20.58	0.10	0.049	(0.055)	0.009	0.040
248	20.67	0.10	0.049	(0.054)	0.009	0.040
249	20.75	0.10	0.049	(0.054)	0.009	0.040
250	20.83	0.07	0.033	(0.054)	0.006	0.027
251	20.92	0.07	0.033	(0.054)	0.006	0.027
252	21.00	0.07	0.033	(0.054)	0.006	0.027
253	21.08	0.10	0.049	(0.053)	0.009	0.040
254	21.17	0.10	0.049	(0.053)	0.009	0.040
255	21.25	0.10	0.049	(0.053)	0.009	0.040
256	21.33	0.07	0.033	(0.053)	0.006	0.027
257	21.42	0.07	0.033	(0.053)	0.006	0.027
258	21.50	0.07	0.033	(0.052)	0.006	0.027
259	21.58	0.10	0.049	(0.052)	0.009	0.040
260	21.67	0.10	0.049	(0.052)	0.009	0.040
261	21.75	0.10	0.049	(0.052)	0.009	0.040
262	21.83	0.07	0.033	(0.052)	0.006	0.027
263	21.92	0.07	0.033	(0.051)	0.006	0.027
264	22.00	0.07	0.033	(0.051)	0.006	0.027
265	22.08	0.10	0.049	(0.051)	0.009	0.040
266	22.17	0.10	0.049	(0.051)	0.009	0.040

267	22.25	0.10	0.049	(0.051)	0.009	0.040
268	22.33	0.07	0.033	(0.051)	0.006	0.027
269	22.42	0.07	0.033	(0.050)	0.006	0.027
270	22.50	0.07	0.033	(0.050)	0.006	0.027
271	22.58	0.07	0.033	(0.050)	0.006	0.027
272	22.67	0.07	0.033	(0.050)	0.006	0.027
273	22.75	0.07	0.033	(0.050)	0.006	0.027
274	22.83	0.07	0.033	(0.050)	0.006	0.027
275	22.92	0.07	0.033	(0.050)	0.006	0.027
276	23.00	0.07	0.033	(0.049)	0.006	0.027
277	23.08	0.07	0.033	(0.049)	0.006	0.027
278	23.17	0.07	0.033	(0.049)	0.006	0.027
279	23.25	0.07	0.033	(0.049)	0.006	0.027
280	23.33	0.07	0.033	(0.049)	0.006	0.027
281	23.42	0.07	0.033	(0.049)	0.006	0.027
282	23.50	0.07	0.033	(0.049)	0.006	0.027
283	23.58	0.07	0.033	(0.049)	0.006	0.027
284	23.67	0.07	0.033	(0.049)	0.006	0.027
285	23.75	0.07	0.033	(0.049)	0.006	0.027
286	23.83	0.07	0.033	(0.049)	0.006	0.027
287	23.92	0.07	0.033	(0.049)	0.006	0.027
288	24.00	0.07	0.033	(0.049)	0.006	0.027

(Loss Rate Not Used)

Sum = 100.0 Sum = 40.2

Flood volume = Effective rainfall 3.35(In)
times area 3.8(Ac.)/[(In)/(Ft.)] = 1.0(Ac.Ft)
Total soil loss = 0.73(In)
Total soil loss = 0.227(Ac.Ft)
Total rainfall = 4.08(In)
Flood volume = 45620.3 Cubic Feet
Total soil loss = 9884.6 Cubic Feet

Peak flow rate of this hydrograph = 1.728(CFS)

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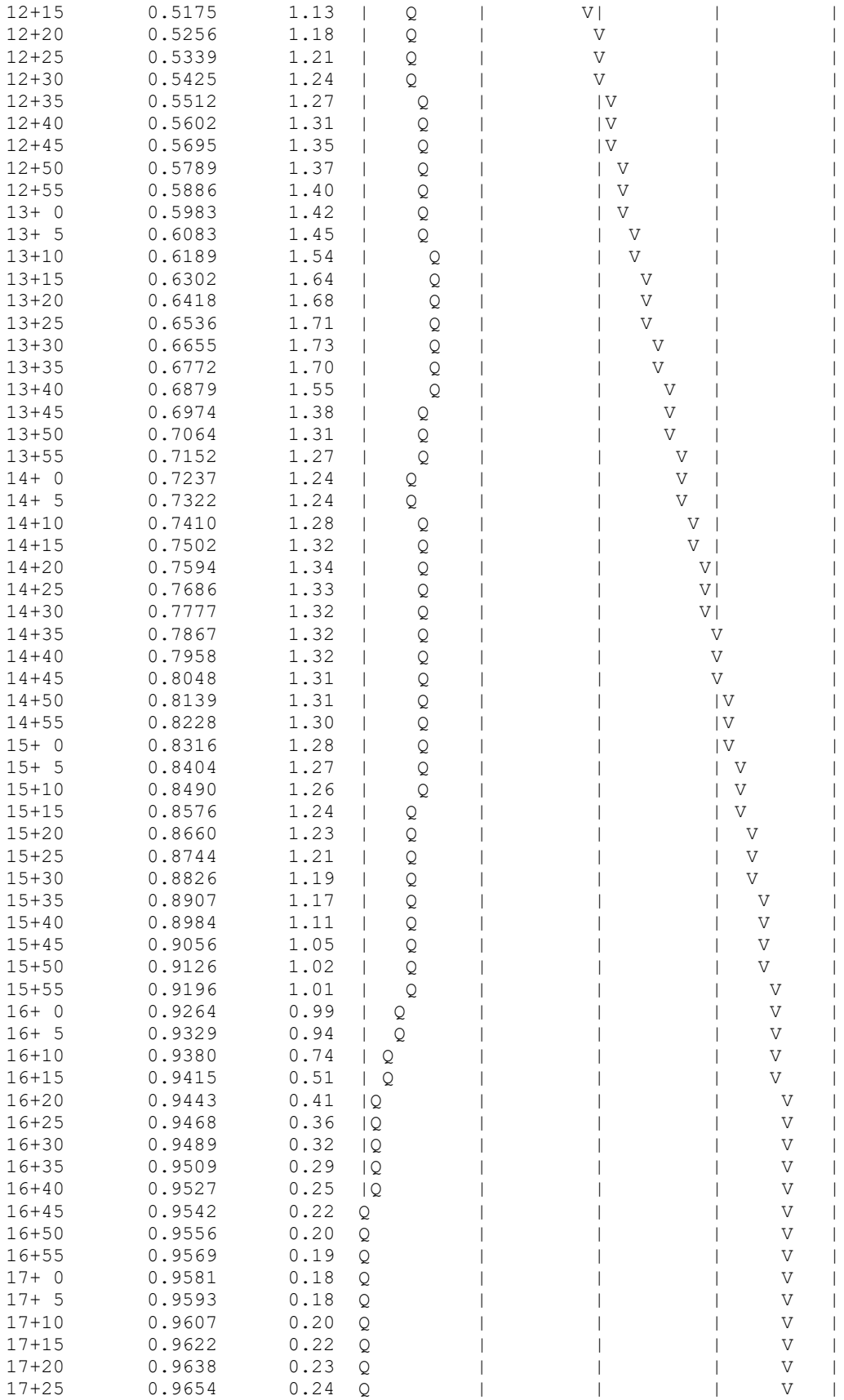
24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0000	0.01	Q	|	|	|	|
0+10	0.0003	0.03	Q	|	|	|	|
0+15	0.0007	0.06	Q	|	|	|	|
0+20	0.0012	0.08	Q	|	|	|	|
0+25	0.0019	0.10	Q	|	|	|	|
0+30	0.0027	0.12	Q	|	|	|	|
0+35	0.0036	0.13	Q	|	|	|	|
0+40	0.0045	0.13	Q	|	|	|	|
0+45	0.0055	0.14	Q	|	|	|	|
0+50	0.0065	0.14	Q	|	|	|	|
0+55	0.0076	0.16	Q	|	|	|	|
1+ 0	0.0088	0.18	Q	|	|	|	|
1+ 5	0.0100	0.18	Q	|	|	|	|
1+10	0.0112	0.17	Q	|	|	|	|
1+15	0.0123	0.16	Q	|	|	|	|
1+20	0.0134	0.16	Q	|	|	|	|
1+25	0.0145	0.16	Q	|	|	|	|
1+30	0.0156	0.16	Q	|	|	|	|
1+35	0.0166	0.15	Q	|	|	|	|
1+40	0.0177	0.15	Q	|	|	|	|

1+45	0.0188	0.15	Q	|	|	|	|
1+50	0.0198	0.16	Q	|	|	|	|
1+55	0.0210	0.17	Q	|	|	|	|
2+ 0	0.0223	0.18	Q	|	|	|	|
2+ 5	0.0236	0.19	Q	|	|	|	|
2+10	0.0249	0.19	Q	|	|	|	|
2+15	0.0262	0.20	QV	|	|	|	|
2+20	0.0276	0.20	QV	|	|	|	|
2+25	0.0290	0.20	QV	|	|	|	|
2+30	0.0303	0.20	QV	|	|	|	|
2+35	0.0317	0.20	QV	|	|	|	|
2+40	0.0332	0.22	QV	|	|	|	|
2+45	0.0348	0.23	QV	|	|	|	|
2+50	0.0365	0.24	QV	|	|	|	|
2+55	0.0381	0.24	QV	|	|	|	|
3+ 0	0.0398	0.25	QV	|	|	|	|
3+ 5	0.0415	0.25	QV	|	|	|	|
3+10	0.0432	0.25	QV	|	|	|	|
3+15	0.0450	0.25	QV	|	|	|	|
3+20	0.0467	0.25	|Q	|	|	|	|
3+25	0.0484	0.25	|Q	|	|	|	|
3+30	0.0501	0.25	|Q	|	|	|	|
3+35	0.0519	0.25	|Q	|	|	|	|
3+40	0.0536	0.25	|QV	|	|	|	|
3+45	0.0554	0.25	|QV	|	|	|	|
3+50	0.0571	0.26	|QV	|	|	|	|
3+55	0.0590	0.27	|QV	|	|	|	|
4+ 0	0.0609	0.28	|QV	|	|	|	|
4+ 5	0.0629	0.29	|QV	|	|	|	|
4+10	0.0649	0.29	|QV	|	|	|	|
4+15	0.0670	0.30	|QV	|	|	|	|
4+20	0.0691	0.30	|QV	|	|	|	|
4+25	0.0712	0.32	|QV	|	|	|	|
4+30	0.0735	0.33	|QV	|	|	|	|
4+35	0.0758	0.34	|QV	|	|	|	|
4+40	0.0782	0.34	|QV	|	|	|	|
4+45	0.0806	0.35	|Q V	|	|	|	|
4+50	0.0830	0.35	|Q V	|	|	|	|
4+55	0.0855	0.37	|Q V	|	|	|	|
5+ 0	0.0881	0.38	|Q V	|	|	|	|
5+ 5	0.0908	0.38	|Q V	|	|	|	|
5+10	0.0933	0.36	|Q V	|	|	|	|
5+15	0.0956	0.33	|Q V	|	|	|	|
5+20	0.0978	0.33	|Q V	|	|	|	|
5+25	0.1001	0.33	|Q V	|	|	|	|
5+30	0.1025	0.35	|Q V	|	|	|	|
5+35	0.1049	0.35	|Q V	|	|	|	|
5+40	0.1074	0.37	|Q V	|	|	|	|
5+45	0.1101	0.38	|Q V	|	|	|	|
5+50	0.1128	0.39	|Q V	|	|	|	|
5+55	0.1155	0.39	|Q V	|	|	|	|
6+ 0	0.1182	0.40	|Q V	|	|	|	|
6+ 5	0.1210	0.40	|Q V	|	|	|	|
6+10	0.1238	0.42	|Q V	|	|	|	|
6+15	0.1268	0.43	|Q V	|	|	|	|
6+20	0.1298	0.44	|Q V	|	|	|	|
6+25	0.1329	0.44	|Q V	|	|	|	|
6+30	0.1360	0.45	|Q V	|	|	|	|
6+35	0.1391	0.45	|Q V	|	|	|	|
6+40	0.1423	0.47	|Q V	|	|	|	|
6+45	0.1456	0.48	|Q V	|	|	|	|
6+50	0.1490	0.49	|Q V	|	|	|	|
6+55	0.1524	0.49	|Q V	|	|	|	|

7+ 0	0.1558	0.50	Q V			
7+ 5	0.1592	0.50	Q V			
7+10	0.1627	0.50	Q V			
7+15	0.1661	0.50	Q V			
7+20	0.1696	0.51	Q V			
7+25	0.1732	0.52	Q V			
7+30	0.1769	0.54	Q V			
7+35	0.1807	0.55	Q V			
7+40	0.1845	0.56	Q V			
7+45	0.1885	0.58	Q V			
7+50	0.1926	0.59	Q V			
7+55	0.1968	0.61	Q V			
8+ 0	0.2011	0.63	Q V			
8+ 5	0.2055	0.64	Q V			
8+10	0.2102	0.67	Q V			
8+15	0.2150	0.71	Q V			
8+20	0.2200	0.72	Q V			
8+25	0.2251	0.73	Q V			
8+30	0.2302	0.74	Q V			
8+35	0.2353	0.75	Q V			
8+40	0.2406	0.76	Q V			
8+45	0.2459	0.78	Q V			
8+50	0.2514	0.79	Q V			
8+55	0.2570	0.81	Q V			
9+ 0	0.2627	0.83	Q V			
9+ 5	0.2685	0.85	Q V			
9+10	0.2746	0.88	Q V			
9+15	0.2808	0.91	Q V			
9+20	0.2872	0.93	Q V			
9+25	0.2938	0.95	Q V			
9+30	0.3005	0.97	Q V			
9+35	0.3073	0.99	Q V			
9+40	0.3142	1.01	Q V			
9+45	0.3213	1.03	Q V			
9+50	0.3285	1.04	Q V			
9+55	0.3358	1.06	Q V			
10+ 0	0.3432	1.08	Q V			
10+ 5	0.3506	1.07	Q V			
10+10	0.3573	0.98	Q V			
10+15	0.3634	0.88	Q V			
10+20	0.3692	0.84	Q V			
10+25	0.3748	0.82	Q V			
10+30	0.3804	0.80	Q V			
10+35	0.3859	0.81	Q V			
10+40	0.3919	0.87	Q V			
10+45	0.3984	0.93	Q V			
10+50	0.4050	0.96	Q V			
10+55	0.4117	0.98	Q V			
11+ 0	0.4185	0.98	Q V			
11+ 5	0.4253	0.99	Q V			
11+10	0.4320	0.98	Q V			
11+15	0.4387	0.97	Q V			
11+20	0.4453	0.96	Q V			
11+25	0.4519	0.96	Q V			
11+30	0.4585	0.96	Q V			
11+35	0.4651	0.96	Q V			
11+40	0.4715	0.93	Q V			
11+45	0.4777	0.90	Q V			
11+50	0.4839	0.89	Q V			
11+55	0.4900	0.90	Q V			
12+ 0	0.4963	0.91	Q V			
12+ 5	0.5027	0.93	Q V			
12+10	0.5097	1.02	Q V			



17+30	0.9671	0.24	Q	|	|	|	V |
17+35	0.9688	0.24	Q	|	|	|	V |
17+40	0.9705	0.24	Q	|	|	|	V |
17+45	0.9722	0.25	Q	|	|	|	V |
17+50	0.9738	0.24	Q	|	|	|	V |
17+55	0.9754	0.23	Q	|	|	|	V |
18+ 0	0.9770	0.22	Q	|	|	|	V |
18+ 5	0.9784	0.21	Q	|	|	|	V |
18+10	0.9799	0.21	Q	|	|	|	V |
18+15	0.9813	0.21	Q	|	|	|	V |
18+20	0.9827	0.21	Q	|	|	|	V |
18+25	0.9842	0.21	Q	|	|	|	V |
18+30	0.9856	0.21	Q	|	|	|	V |
18+35	0.9870	0.20	Q	|	|	|	V |
18+40	0.9883	0.19	Q	|	|	|	V |
18+45	0.9895	0.17	Q	|	|	|	V |
18+50	0.9906	0.16	Q	|	|	|	V |
18+55	0.9916	0.15	Q	|	|	|	V |
19+ 0	0.9925	0.13	Q	|	|	|	V |
19+ 5	0.9933	0.12	Q	|	|	|	V |
19+10	0.9942	0.13	Q	|	|	|	V |
19+15	0.9952	0.14	Q	|	|	|	V |
19+20	0.9962	0.15	Q	|	|	|	V |
19+25	0.9974	0.16	Q	|	|	|	V |
19+30	0.9986	0.18	Q	|	|	|	V |
19+35	0.9999	0.18	Q	|	|	|	V |
19+40	1.0011	0.17	Q	|	|	|	V |
19+45	1.0022	0.16	Q	|	|	|	V |
19+50	1.0033	0.15	Q	|	|	|	V |
19+55	1.0042	0.14	Q	|	|	|	V |
20+ 0	1.0051	0.12	Q	|	|	|	V |
20+ 5	1.0059	0.12	Q	|	|	|	V |
20+10	1.0068	0.13	Q	|	|	|	V |
20+15	1.0078	0.14	Q	|	|	|	V |
20+20	1.0088	0.15	Q	|	|	|	V |
20+25	1.0098	0.15	Q	|	|	|	V |
20+30	1.0108	0.15	Q	|	|	|	V |
20+35	1.0118	0.15	Q	|	|	|	V |
20+40	1.0129	0.15	Q	|	|	|	V |
20+45	1.0139	0.15	Q	|	|	|	V |
20+50	1.0149	0.15	Q	|	|	|	V |
20+55	1.0158	0.13	Q	|	|	|	V |
21+ 0	1.0167	0.12	Q	|	|	|	V |
21+ 5	1.0175	0.12	Q	|	|	|	V |
21+10	1.0183	0.13	Q	|	|	|	V |
21+15	1.0193	0.14	Q	|	|	|	V |
21+20	1.0203	0.14	Q	|	|	|	V |
21+25	1.0211	0.13	Q	|	|	|	V|
21+30	1.0220	0.12	Q	|	|	|	V|
21+35	1.0227	0.11	Q	|	|	|	V|
21+40	1.0236	0.12	Q	|	|	|	V|
21+45	1.0245	0.14	Q	|	|	|	V|
21+50	1.0255	0.14	Q	|	|	|	V|
21+55	1.0264	0.13	Q	|	|	|	V|
22+ 0	1.0272	0.12	Q	|	|	|	V|
22+ 5	1.0280	0.11	Q	|	|	|	V|
22+10	1.0288	0.12	Q	|	|	|	V|
22+15	1.0298	0.14	Q	|	|	|	V|
22+20	1.0307	0.14	Q	|	|	|	V|
22+25	1.0316	0.13	Q	|	|	|	V|
22+30	1.0324	0.12	Q	|	|	|	V|
22+35	1.0332	0.11	Q	|	|	|	V|
22+40	1.0339	0.11	Q	|	|	|	V|

22+45	1.0346	0.11	Q	|	|	|	V|
22+50	1.0354	0.11	Q	|	|	|	V|
22+55	1.0361	0.10	Q	|	|	|	V|
23+ 0	1.0368	0.10	Q	|	|	|	V|
23+ 5	1.0375	0.10	Q	|	|	|	V|
23+10	1.0382	0.10	Q	|	|	|	V|
23+15	1.0389	0.10	Q	|	|	|	V|
23+20	1.0396	0.10	Q	|	|	|	V|
23+25	1.0403	0.10	Q	|	|	|	V|
23+30	1.0410	0.10	Q	|	|	|	V|
23+35	1.0417	0.10	Q	|	|	|	V|
23+40	1.0424	0.10	Q	|	|	|	V|
23+45	1.0431	0.10	Q	|	|	|	V|
23+50	1.0438	0.10	Q	|	|	|	V|
23+55	1.0445	0.10	Q	|	|	|	V|
24+ 0	1.0452	0.10	Q	|	|	|	V|
24+ 5	1.0459	0.09	Q	|	|	|	V|
24+10	1.0463	0.07	Q	|	|	|	V|
24+15	1.0466	0.04	Q	|	|	|	V|
24+20	1.0468	0.03	Q	|	|	|	V|
24+25	1.0469	0.02	Q	|	|	|	V|
24+30	1.0470	0.01	Q	|	|	|	V|
24+35	1.0471	0.01	Q	|	|	|	V|
24+40	1.0471	0.01	Q	|	|	|	V|
24+45	1.0472	0.01	Q	|	|	|	V|
24+50	1.0472	0.01	Q	|	|	|	V|
24+55	1.0473	0.00	Q	|	|	|	V|
25+ 0	1.0473	0.00	Q	|	|	|	V|
25+ 5	1.0473	0.00	Q	|	|	|	V|
25+10	1.0473	0.00	Q	|	|	|	V|
25+15	1.0473	0.00	Q	|	|	|	V|
25+20	1.0473	0.00	Q	|	|	|	V|

U n i t H y d r o g r a p h A n a l y s i s

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Study date 07/11/21 File: UHYDPR100YR24100.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6497

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

UNIT HYDROGRAPH FOR PROPOSED CONDITION - 100 YR STORM - 24 HRS

Drainage Area = 3.75(Ac.) = 0.006 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 3.75(Ac.) = 0.006 Sq. Mi.
USER Entry of lag time in hours
Lag time = 0.167 Hr.
Lag time = 10.00 Min.
25% of lag time = 2.50 Min.
40% of lag time = 4.00 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
3.75	2.58	9.68

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
3.75	6.22	23.32

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 2.580(In)
Area Averaged 100-Year Rainfall = 6.220(In)

Point rain (area averaged) = 6.220(In)
Areal adjustment factor = 100.00 %
Adjusted average point rain = 6.220(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
3.750	56.00	0.900

Total Area Entered = 3.75(Ac.)

RI AMC2	RI AMC-3	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	74.8	0.305	0.900	0.058	1.000	0.058
					Sum (F) =	0.058

Area averaged mean soil loss (F) (In/Hr) = 0.058
Minimum soil loss rate ((In/Hr)) = 0.029
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.180

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	49.990	6.123	0.231
2	0.167	99.980	26.141	0.988
3	0.250	149.970	28.851	1.090
4	0.333	199.960	12.959	0.490
5	0.417	249.950	6.796	0.257
6	0.500	299.940	4.726	0.179
7	0.583	349.930	3.400	0.129
8	0.667	399.920	2.601	0.098
9	0.750	449.910	1.901	0.072
10	0.833	499.900	1.550	0.059
11	0.917	549.890	1.301	0.049
12	1.000	599.880	1.000	0.038
13	1.083	649.870	0.800	0.030
14	1.167	699.860	0.600	0.023
15	1.250	749.850	0.500	0.019
16	1.333	799.840	0.500	0.019
17	1.417	849.830	0.252	0.010
			Sum = 100.000	Sum= 3.779

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)		Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max		Low	Effective (In/Hr)
1	0.08	0.07	0.050	(0.103)		0.009	0.041
2	0.17	0.07	0.050	(0.102)		0.009	0.041
3	0.25	0.07	0.050	(0.102)		0.009	0.041
4	0.33	0.10	0.075	(0.102)		0.013	0.061
5	0.42	0.10	0.075	(0.101)		0.013	0.061
6	0.50	0.10	0.075	(0.101)		0.013	0.061
7	0.58	0.10	0.075	(0.100)		0.013	0.061
8	0.67	0.10	0.075	(0.100)		0.013	0.061
9	0.75	0.10	0.075	(0.100)		0.013	0.061
10	0.83	0.13	0.100	(0.099)		0.018	0.082
11	0.92	0.13	0.100	(0.099)		0.018	0.082
12	1.00	0.13	0.100	(0.099)		0.018	0.082
13	1.08	0.10	0.075	(0.098)		0.013	0.061
14	1.17	0.10	0.075	(0.098)		0.013	0.061

15	1.25	0.10	0.075	(0.097)	0.013	0.061
16	1.33	0.10	0.075	(0.097)	0.013	0.061
17	1.42	0.10	0.075	(0.097)	0.013	0.061
18	1.50	0.10	0.075	(0.096)	0.013	0.061
19	1.58	0.10	0.075	(0.096)	0.013	0.061
20	1.67	0.10	0.075	(0.095)	0.013	0.061
21	1.75	0.10	0.075	(0.095)	0.013	0.061
22	1.83	0.13	0.100	(0.095)	0.018	0.082
23	1.92	0.13	0.100	(0.094)	0.018	0.082
24	2.00	0.13	0.100	(0.094)	0.018	0.082
25	2.08	0.13	0.100	(0.094)	0.018	0.082
26	2.17	0.13	0.100	(0.093)	0.018	0.082
27	2.25	0.13	0.100	(0.093)	0.018	0.082
28	2.33	0.13	0.100	(0.092)	0.018	0.082
29	2.42	0.13	0.100	(0.092)	0.018	0.082
30	2.50	0.13	0.100	(0.092)	0.018	0.082
31	2.58	0.17	0.124	(0.091)	0.022	0.102
32	2.67	0.17	0.124	(0.091)	0.022	0.102
33	2.75	0.17	0.124	(0.091)	0.022	0.102
34	2.83	0.17	0.124	(0.090)	0.022	0.102
35	2.92	0.17	0.124	(0.090)	0.022	0.102
36	3.00	0.17	0.124	(0.089)	0.022	0.102
37	3.08	0.17	0.124	(0.089)	0.022	0.102
38	3.17	0.17	0.124	(0.089)	0.022	0.102
39	3.25	0.17	0.124	(0.088)	0.022	0.102
40	3.33	0.17	0.124	(0.088)	0.022	0.102
41	3.42	0.17	0.124	(0.088)	0.022	0.102
42	3.50	0.17	0.124	(0.087)	0.022	0.102
43	3.58	0.17	0.124	(0.087)	0.022	0.102
44	3.67	0.17	0.124	(0.086)	0.022	0.102
45	3.75	0.17	0.124	(0.086)	0.022	0.102
46	3.83	0.20	0.149	(0.086)	0.027	0.122
47	3.92	0.20	0.149	(0.085)	0.027	0.122
48	4.00	0.20	0.149	(0.085)	0.027	0.122
49	4.08	0.20	0.149	(0.085)	0.027	0.122
50	4.17	0.20	0.149	(0.084)	0.027	0.122
51	4.25	0.20	0.149	(0.084)	0.027	0.122
52	4.33	0.23	0.174	(0.084)	0.031	0.143
53	4.42	0.23	0.174	(0.083)	0.031	0.143
54	4.50	0.23	0.174	(0.083)	0.031	0.143
55	4.58	0.23	0.174	(0.082)	0.031	0.143
56	4.67	0.23	0.174	(0.082)	0.031	0.143
57	4.75	0.23	0.174	(0.082)	0.031	0.143
58	4.83	0.27	0.199	(0.081)	0.036	0.163
59	4.92	0.27	0.199	(0.081)	0.036	0.163
60	5.00	0.27	0.199	(0.081)	0.036	0.163
61	5.08	0.20	0.149	(0.080)	0.027	0.122
62	5.17	0.20	0.149	(0.080)	0.027	0.122
63	5.25	0.20	0.149	(0.080)	0.027	0.122
64	5.33	0.23	0.174	(0.079)	0.031	0.143
65	5.42	0.23	0.174	(0.079)	0.031	0.143
66	5.50	0.23	0.174	(0.079)	0.031	0.143
67	5.58	0.27	0.199	(0.078)	0.036	0.163
68	5.67	0.27	0.199	(0.078)	0.036	0.163
69	5.75	0.27	0.199	(0.078)	0.036	0.163
70	5.83	0.27	0.199	(0.077)	0.036	0.163
71	5.92	0.27	0.199	(0.077)	0.036	0.163
72	6.00	0.27	0.199	(0.077)	0.036	0.163
73	6.08	0.30	0.224	(0.076)	0.040	0.184
74	6.17	0.30	0.224	(0.076)	0.040	0.184
75	6.25	0.30	0.224	(0.076)	0.040	0.184
76	6.33	0.30	0.224	(0.075)	0.040	0.184
77	6.42	0.30	0.224	(0.075)	0.040	0.184

78	6.50	0.30	0.224	(0.075)	0.040	0.184
79	6.58	0.33	0.249	(0.074)	0.045	0.204
80	6.67	0.33	0.249	(0.074)	0.045	0.204
81	6.75	0.33	0.249	(0.074)	0.045	0.204
82	6.83	0.33	0.249	(0.073)	0.045	0.204
83	6.92	0.33	0.249	(0.073)	0.045	0.204
84	7.00	0.33	0.249	(0.073)	0.045	0.204
85	7.08	0.33	0.249	(0.072)	0.045	0.204
86	7.17	0.33	0.249	(0.072)	0.045	0.204
87	7.25	0.33	0.249	(0.072)	0.045	0.204
88	7.33	0.37	0.274	(0.071)	0.049	0.224
89	7.42	0.37	0.274	(0.071)	0.049	0.224
90	7.50	0.37	0.274	(0.071)	0.049	0.224
91	7.58	0.40	0.299	(0.070)	0.054	0.245
92	7.67	0.40	0.299	(0.070)	0.054	0.245
93	7.75	0.40	0.299	(0.070)	0.054	0.245
94	7.83	0.43	0.323	(0.069)	0.058	0.265
95	7.92	0.43	0.323	(0.069)	0.058	0.265
96	8.00	0.43	0.323	(0.069)	0.058	0.265
97	8.08	0.50	0.373	(0.068)	0.067	0.306
98	8.17	0.50	0.373	(0.068)	0.067	0.306
99	8.25	0.50	0.373	(0.068)	0.067	0.306
100	8.33	0.50	0.373	(0.067)	0.067	0.306
101	8.42	0.50	0.373	0.067	(0.067)	0.306
102	8.50	0.50	0.373	0.067	(0.067)	0.306
103	8.58	0.53	0.398	0.066	(0.072)	0.332
104	8.67	0.53	0.398	0.066	(0.072)	0.332
105	8.75	0.53	0.398	0.066	(0.072)	0.332
106	8.83	0.57	0.423	0.066	(0.076)	0.357
107	8.92	0.57	0.423	0.065	(0.076)	0.358
108	9.00	0.57	0.423	0.065	(0.076)	0.358
109	9.08	0.63	0.473	0.065	(0.085)	0.408
110	9.17	0.63	0.473	0.064	(0.085)	0.408
111	9.25	0.63	0.473	0.064	(0.085)	0.409
112	9.33	0.67	0.498	0.064	(0.090)	0.434
113	9.42	0.67	0.498	0.063	(0.090)	0.434
114	9.50	0.67	0.498	0.063	(0.090)	0.435
115	9.58	0.70	0.522	0.063	(0.094)	0.460
116	9.67	0.70	0.522	0.062	(0.094)	0.460
117	9.75	0.70	0.522	0.062	(0.094)	0.460
118	9.83	0.73	0.547	0.062	(0.099)	0.485
119	9.92	0.73	0.547	0.062	(0.099)	0.486
120	10.00	0.73	0.547	0.061	(0.099)	0.486
121	10.08	0.50	0.373	0.061	(0.067)	0.312
122	10.17	0.50	0.373	0.061	(0.067)	0.313
123	10.25	0.50	0.373	0.060	(0.067)	0.313
124	10.33	0.50	0.373	0.060	(0.067)	0.313
125	10.42	0.50	0.373	0.060	(0.067)	0.313
126	10.50	0.50	0.373	0.060	(0.067)	0.314
127	10.58	0.67	0.498	0.059	(0.090)	0.438
128	10.67	0.67	0.498	0.059	(0.090)	0.439
129	10.75	0.67	0.498	0.059	(0.090)	0.439
130	10.83	0.67	0.498	0.058	(0.090)	0.439
131	10.92	0.67	0.498	0.058	(0.090)	0.440
132	11.00	0.67	0.498	0.058	(0.090)	0.440
133	11.08	0.63	0.473	0.057	(0.085)	0.415
134	11.17	0.63	0.473	0.057	(0.085)	0.416
135	11.25	0.63	0.473	0.057	(0.085)	0.416
136	11.33	0.63	0.473	0.057	(0.085)	0.416
137	11.42	0.63	0.473	0.056	(0.085)	0.416
138	11.50	0.63	0.473	0.056	(0.085)	0.417
139	11.58	0.57	0.423	0.056	(0.076)	0.367
140	11.67	0.57	0.423	0.056	(0.076)	0.367

141	11.75	0.57	0.423	0.055	(0.076)	0.368
142	11.83	0.60	0.448	0.055	(0.081)	0.393
143	11.92	0.60	0.448	0.055	(0.081)	0.393
144	12.00	0.60	0.448	0.054	(0.081)	0.393
145	12.08	0.83	0.622	0.054	(0.112)	0.568
146	12.17	0.83	0.622	0.054	(0.112)	0.568
147	12.25	0.83	0.622	0.054	(0.112)	0.568
148	12.33	0.87	0.647	0.053	(0.116)	0.594
149	12.42	0.87	0.647	0.053	(0.116)	0.594
150	12.50	0.87	0.647	0.053	(0.116)	0.594
151	12.58	0.93	0.697	0.053	(0.125)	0.644
152	12.67	0.93	0.697	0.052	(0.125)	0.644
153	12.75	0.93	0.697	0.052	(0.125)	0.645
154	12.83	0.97	0.722	0.052	(0.130)	0.670
155	12.92	0.97	0.722	0.051	(0.130)	0.670
156	13.00	0.97	0.722	0.051	(0.130)	0.670
157	13.08	1.13	0.846	0.051	(0.152)	0.795
158	13.17	1.13	0.846	0.051	(0.152)	0.795
159	13.25	1.13	0.846	0.050	(0.152)	0.795
160	13.33	1.13	0.846	0.050	(0.152)	0.796
161	13.42	1.13	0.846	0.050	(0.152)	0.796
162	13.50	1.13	0.846	0.050	(0.152)	0.796
163	13.58	0.77	0.572	0.049	(0.103)	0.523
164	13.67	0.77	0.572	0.049	(0.103)	0.523
165	13.75	0.77	0.572	0.049	(0.103)	0.523
166	13.83	0.77	0.572	0.049	(0.103)	0.524
167	13.92	0.77	0.572	0.048	(0.103)	0.524
168	14.00	0.77	0.572	0.048	(0.103)	0.524
169	14.08	0.90	0.672	0.048	(0.121)	0.624
170	14.17	0.90	0.672	0.048	(0.121)	0.624
171	14.25	0.90	0.672	0.047	(0.121)	0.624
172	14.33	0.87	0.647	0.047	(0.116)	0.600
173	14.42	0.87	0.647	0.047	(0.116)	0.600
174	14.50	0.87	0.647	0.047	(0.116)	0.600
175	14.58	0.87	0.647	0.046	(0.116)	0.600
176	14.67	0.87	0.647	0.046	(0.116)	0.601
177	14.75	0.87	0.647	0.046	(0.116)	0.601
178	14.83	0.83	0.622	0.046	(0.112)	0.576
179	14.92	0.83	0.622	0.046	(0.112)	0.576
180	15.00	0.83	0.622	0.045	(0.112)	0.577
181	15.08	0.80	0.597	0.045	(0.107)	0.552
182	15.17	0.80	0.597	0.045	(0.107)	0.552
183	15.25	0.80	0.597	0.045	(0.107)	0.552
184	15.33	0.77	0.572	0.044	(0.103)	0.528
185	15.42	0.77	0.572	0.044	(0.103)	0.528
186	15.50	0.77	0.572	0.044	(0.103)	0.528
187	15.58	0.63	0.473	0.044	(0.085)	0.429
188	15.67	0.63	0.473	0.043	(0.085)	0.429
189	15.75	0.63	0.473	0.043	(0.085)	0.429
190	15.83	0.63	0.473	0.043	(0.085)	0.430
191	15.92	0.63	0.473	0.043	(0.085)	0.430
192	16.00	0.63	0.473	0.043	(0.085)	0.430
193	16.08	0.13	0.100	(0.042)	0.018	0.082
194	16.17	0.13	0.100	(0.042)	0.018	0.082
195	16.25	0.13	0.100	(0.042)	0.018	0.082
196	16.33	0.13	0.100	(0.042)	0.018	0.082
197	16.42	0.13	0.100	(0.042)	0.018	0.082
198	16.50	0.13	0.100	(0.041)	0.018	0.082
199	16.58	0.10	0.075	(0.041)	0.013	0.061
200	16.67	0.10	0.075	(0.041)	0.013	0.061
201	16.75	0.10	0.075	(0.041)	0.013	0.061
202	16.83	0.10	0.075	(0.040)	0.013	0.061
203	16.92	0.10	0.075	(0.040)	0.013	0.061

204	17.00	0.10	0.075	(0.040)	0.013	0.061
205	17.08	0.17	0.124	(0.040)	0.022	0.102
206	17.17	0.17	0.124	(0.040)	0.022	0.102
207	17.25	0.17	0.124	(0.039)	0.022	0.102
208	17.33	0.17	0.124	(0.039)	0.022	0.102
209	17.42	0.17	0.124	(0.039)	0.022	0.102
210	17.50	0.17	0.124	(0.039)	0.022	0.102
211	17.58	0.17	0.124	(0.039)	0.022	0.102
212	17.67	0.17	0.124	(0.038)	0.022	0.102
213	17.75	0.17	0.124	(0.038)	0.022	0.102
214	17.83	0.13	0.100	(0.038)	0.018	0.082
215	17.92	0.13	0.100	(0.038)	0.018	0.082
216	18.00	0.13	0.100	(0.038)	0.018	0.082
217	18.08	0.13	0.100	(0.038)	0.018	0.082
218	18.17	0.13	0.100	(0.037)	0.018	0.082
219	18.25	0.13	0.100	(0.037)	0.018	0.082
220	18.33	0.13	0.100	(0.037)	0.018	0.082
221	18.42	0.13	0.100	(0.037)	0.018	0.082
222	18.50	0.13	0.100	(0.037)	0.018	0.082
223	18.58	0.10	0.075	(0.036)	0.013	0.061
224	18.67	0.10	0.075	(0.036)	0.013	0.061
225	18.75	0.10	0.075	(0.036)	0.013	0.061
226	18.83	0.07	0.050	(0.036)	0.009	0.041
227	18.92	0.07	0.050	(0.036)	0.009	0.041
228	19.00	0.07	0.050	(0.036)	0.009	0.041
229	19.08	0.10	0.075	(0.035)	0.013	0.061
230	19.17	0.10	0.075	(0.035)	0.013	0.061
231	19.25	0.10	0.075	(0.035)	0.013	0.061
232	19.33	0.13	0.100	(0.035)	0.018	0.082
233	19.42	0.13	0.100	(0.035)	0.018	0.082
234	19.50	0.13	0.100	(0.035)	0.018	0.082
235	19.58	0.10	0.075	(0.034)	0.013	0.061
236	19.67	0.10	0.075	(0.034)	0.013	0.061
237	19.75	0.10	0.075	(0.034)	0.013	0.061
238	19.83	0.07	0.050	(0.034)	0.009	0.041
239	19.92	0.07	0.050	(0.034)	0.009	0.041
240	20.00	0.07	0.050	(0.034)	0.009	0.041
241	20.08	0.10	0.075	(0.034)	0.013	0.061
242	20.17	0.10	0.075	(0.033)	0.013	0.061
243	20.25	0.10	0.075	(0.033)	0.013	0.061
244	20.33	0.10	0.075	(0.033)	0.013	0.061
245	20.42	0.10	0.075	(0.033)	0.013	0.061
246	20.50	0.10	0.075	(0.033)	0.013	0.061
247	20.58	0.10	0.075	(0.033)	0.013	0.061
248	20.67	0.10	0.075	(0.033)	0.013	0.061
249	20.75	0.10	0.075	(0.032)	0.013	0.061
250	20.83	0.07	0.050	(0.032)	0.009	0.041
251	20.92	0.07	0.050	(0.032)	0.009	0.041
252	21.00	0.07	0.050	(0.032)	0.009	0.041
253	21.08	0.10	0.075	(0.032)	0.013	0.061
254	21.17	0.10	0.075	(0.032)	0.013	0.061
255	21.25	0.10	0.075	(0.032)	0.013	0.061
256	21.33	0.07	0.050	(0.032)	0.009	0.041
257	21.42	0.07	0.050	(0.031)	0.009	0.041
258	21.50	0.07	0.050	(0.031)	0.009	0.041
259	21.58	0.10	0.075	(0.031)	0.013	0.061
260	21.67	0.10	0.075	(0.031)	0.013	0.061
261	21.75	0.10	0.075	(0.031)	0.013	0.061
262	21.83	0.07	0.050	(0.031)	0.009	0.041
263	21.92	0.07	0.050	(0.031)	0.009	0.041
264	22.00	0.07	0.050	(0.031)	0.009	0.041
265	22.08	0.10	0.075	(0.031)	0.013	0.061
266	22.17	0.10	0.075	(0.030)	0.013	0.061

267	22.25	0.10	0.075	(0.030)	0.013	0.061
268	22.33	0.07	0.050	(0.030)	0.009	0.041
269	22.42	0.07	0.050	(0.030)	0.009	0.041
270	22.50	0.07	0.050	(0.030)	0.009	0.041
271	22.58	0.07	0.050	(0.030)	0.009	0.041
272	22.67	0.07	0.050	(0.030)	0.009	0.041
273	22.75	0.07	0.050	(0.030)	0.009	0.041
274	22.83	0.07	0.050	(0.030)	0.009	0.041
275	22.92	0.07	0.050	(0.030)	0.009	0.041
276	23.00	0.07	0.050	(0.030)	0.009	0.041
277	23.08	0.07	0.050	(0.030)	0.009	0.041
278	23.17	0.07	0.050	(0.029)	0.009	0.041
279	23.25	0.07	0.050	(0.029)	0.009	0.041
280	23.33	0.07	0.050	(0.029)	0.009	0.041
281	23.42	0.07	0.050	(0.029)	0.009	0.041
282	23.50	0.07	0.050	(0.029)	0.009	0.041
283	23.58	0.07	0.050	(0.029)	0.009	0.041
284	23.67	0.07	0.050	(0.029)	0.009	0.041
285	23.75	0.07	0.050	(0.029)	0.009	0.041
286	23.83	0.07	0.050	(0.029)	0.009	0.041
287	23.92	0.07	0.050	(0.029)	0.009	0.041
288	24.00	0.07	0.050	(0.029)	0.009	0.041

(Loss Rate Not Used)

Sum = 100.0 Sum = 65.3

Flood volume = Effective rainfall 5.45(In)
times area 3.8(Ac.)/[(In)/(Ft.)] = 1.7(Ac.Ft)
Total soil loss = 0.77(In)
Total soil loss = 0.242(Ac.Ft)
Total rainfall = 6.22(In)
Flood volume = 74128.6 Cubic Feet
Total soil loss = 10540.6 Cubic Feet

Peak flow rate of this hydrograph = 2.928(CFS)

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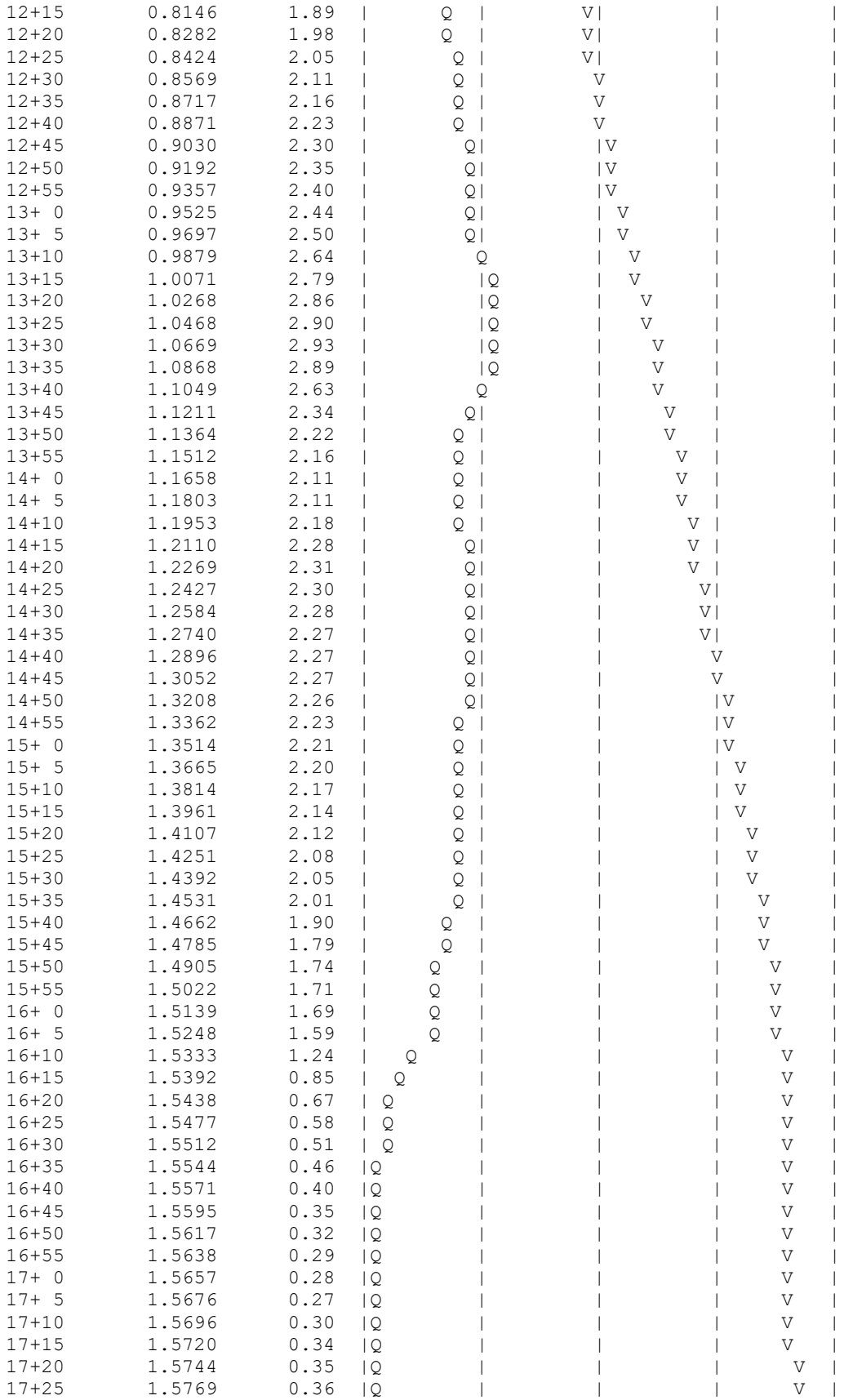
24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0001	0.01	Q	|	|	|	|
0+10	0.0004	0.05	Q	|	|	|	|
0+15	0.0011	0.09	Q	|	|	|	|
0+20	0.0019	0.12	Q	|	|	|	|
0+25	0.0029	0.15	Q	|	|	|	|
0+30	0.0041	0.18	Q	|	|	|	|
0+35	0.0055	0.19	Q	|	|	|	|
0+40	0.0069	0.20	Q	|	|	|	|
0+45	0.0083	0.21	Q	|	|	|	|
0+50	0.0098	0.22	Q	|	|	|	|
0+55	0.0115	0.24	Q	|	|	|	|
1+ 0	0.0134	0.27	VQ	|	|	|	|
1+ 5	0.0153	0.28	VQ	|	|	|	|
1+10	0.0171	0.26	VQ	|	|	|	|
1+15	0.0188	0.25	Q	|	|	|	|
1+20	0.0205	0.24	Q	|	|	|	|
1+25	0.0221	0.24	Q	|	|	|	|
1+30	0.0238	0.24	Q	|	|	|	|
1+35	0.0254	0.24	Q	|	|	|	|
1+40	0.0270	0.24	Q	|	|	|	|

1+45	0.0286	0.23	Q	|	|	|	|
1+50	0.0303	0.24	Q	|	|	|	|
1+55	0.0320	0.26	VQ	|	|	|	|
2+ 0	0.0340	0.28	VQ	|	|	|	|
2+ 5	0.0360	0.29	VQ	|	|	|	|
2+10	0.0380	0.29	VQ	|	|	|	|
2+15	0.0400	0.30	VQ	|	|	|	|
2+20	0.0421	0.30	VQ	|	|	|	|
2+25	0.0442	0.30	|Q	|	|	|	|
2+30	0.0463	0.30	|Q	|	|	|	|
2+35	0.0484	0.31	|Q	|	|	|	|
2+40	0.0507	0.33	|Q	|	|	|	|
2+45	0.0531	0.35	|Q	|	|	|	|
2+50	0.0556	0.36	|Q	|	|	|	|
2+55	0.0582	0.37	|Q	|	|	|	|
3+ 0	0.0608	0.37	|Q	|	|	|	|
3+ 5	0.0634	0.38	|Q	|	|	|	|
3+10	0.0660	0.38	|Q	|	|	|	|
3+15	0.0686	0.38	|Q	|	|	|	|
3+20	0.0712	0.38	|Q	|	|	|	|
3+25	0.0739	0.38	|Q	|	|	|	|
3+30	0.0765	0.38	|Q	|	|	|	|
3+35	0.0791	0.38	|Q	|	|	|	|
3+40	0.0818	0.38	|Q	|	|	|	|
3+45	0.0844	0.39	|Q	|	|	|	|
3+50	0.0871	0.39	|QV	|	|	|	|
3+55	0.0900	0.41	|QV	|	|	|	|
4+ 0	0.0929	0.43	|QV	|	|	|	|
4+ 5	0.0960	0.44	|QV	|	|	|	|
4+10	0.0991	0.45	|QV	|	|	|	|
4+15	0.1022	0.45	|QV	|	|	|	|
4+20	0.1053	0.46	|QV	|	|	|	|
4+25	0.1087	0.48	|QV	|	|	|	|
4+30	0.1121	0.50	| Q	|	|	|	|
4+35	0.1157	0.52	| Q	|	|	|	|
4+40	0.1193	0.52	| Q	|	|	|	|
4+45	0.1229	0.53	| Q	|	|	|	|
4+50	0.1266	0.53	| Q	|	|	|	|
4+55	0.1304	0.56	| QV	|	|	|	|
5+ 0	0.1345	0.58	| QV	|	|	|	|
5+ 5	0.1385	0.58	| QV	|	|	|	|
5+10	0.1423	0.55	| QV	|	|	|	|
5+15	0.1458	0.51	| QV	|	|	|	|
5+20	0.1492	0.50	|Q V	|	|	|	|
5+25	0.1527	0.51	| QV	|	|	|	|
5+30	0.1563	0.53	| QV	|	|	|	|
5+35	0.1600	0.54	| QV	|	|	|	|
5+40	0.1639	0.56	| QV	|	|	|	|
5+45	0.1679	0.58	| QV	|	|	|	|
5+50	0.1720	0.59	| Q V	|	|	|	|
5+55	0.1761	0.60	| Q V	|	|	|	|
6+ 0	0.1803	0.60	| Q V	|	|	|	|
6+ 5	0.1845	0.61	| Q V	|	|	|	|
6+10	0.1889	0.63	| Q V	|	|	|	|
6+15	0.1934	0.66	| Q V	|	|	|	|
6+20	0.1980	0.67	| Q V	|	|	|	|
6+25	0.2027	0.68	| Q V	|	|	|	|
6+30	0.2074	0.68	| Q V	|	|	|	|
6+35	0.2121	0.69	| Q V	|	|	|	|
6+40	0.2170	0.71	| Q V	|	|	|	|
6+45	0.2221	0.74	| Q V	|	|	|	|
6+50	0.2272	0.75	| Q V	|	|	|	|
6+55	0.2324	0.75	| Q V	|	|	|	|

7+ 0	0.2377	0.76	Q V				
7+ 5	0.2429	0.76	Q V				
7+10	0.2482	0.76	Q V				
7+15	0.2534	0.77	Q V				
7+20	0.2588	0.77	Q V				
7+25	0.2642	0.79	Q V				
7+30	0.2698	0.82	Q V				
7+35	0.2756	0.83	Q V				
7+40	0.2815	0.86	Q V				
7+45	0.2876	0.88	Q V				
7+50	0.2938	0.90	Q V				
7+55	0.3002	0.93	Q V				
8+ 0	0.3068	0.96	Q V				
8+ 5	0.3135	0.98	Q V				
8+10	0.3206	1.03	Q V				
8+15	0.3280	1.08	Q V				
8+20	0.3356	1.10	Q V				
8+25	0.3433	1.12	Q V				
8+30	0.3511	1.13	Q V				
8+35	0.3590	1.14	Q V				
8+40	0.3670	1.17	Q V				
8+45	0.3753	1.20	Q V				
8+50	0.3838	1.23	Q V				
8+55	0.3925	1.26	Q V				
9+ 0	0.4014	1.30	Q V				
9+ 5	0.4105	1.33	Q V				
9+10	0.4201	1.39	Q V				
9+15	0.4300	1.45	Q V				
9+20	0.4403	1.48	Q V				
9+25	0.4508	1.53	Q V				
9+30	0.4616	1.57	Q V				
9+35	0.4726	1.60	Q V				
9+40	0.4838	1.63	Q V				
9+45	0.4953	1.67	Q V				
9+50	0.5070	1.70	Q V				
9+55	0.5190	1.74	Q V				
10+ 0	0.5312	1.77	Q V				
10+ 5	0.5432	1.75	Q V				
10+10	0.5542	1.59	Q V				
10+15	0.5639	1.41	Q V				
10+20	0.5731	1.33	Q V				
10+25	0.5820	1.30	Q V				
10+30	0.5908	1.27	Q V				
10+35	0.5996	1.28	Q V				
10+40	0.6091	1.39	Q V				
10+45	0.6196	1.51	Q V				
10+50	0.6303	1.57	Q V				
10+55	0.6413	1.59	Q V				
11+ 0	0.6524	1.61	Q V				
11+ 5	0.6635	1.62	Q V				
11+10	0.6745	1.60	Q V				
11+15	0.6854	1.58	Q V				
11+20	0.6962	1.57	Q V				
11+25	0.7071	1.57	Q V				
11+30	0.7179	1.57	Q V				
11+35	0.7287	1.56	Q V				
11+40	0.7391	1.52	Q V				
11+45	0.7492	1.46	Q V				
11+50	0.7592	1.45	Q V				
11+55	0.7692	1.46	Q V				
12+ 0	0.7794	1.48	Q V				
12+ 5	0.7899	1.52	Q V				
12+10	0.8016	1.70	Q V				



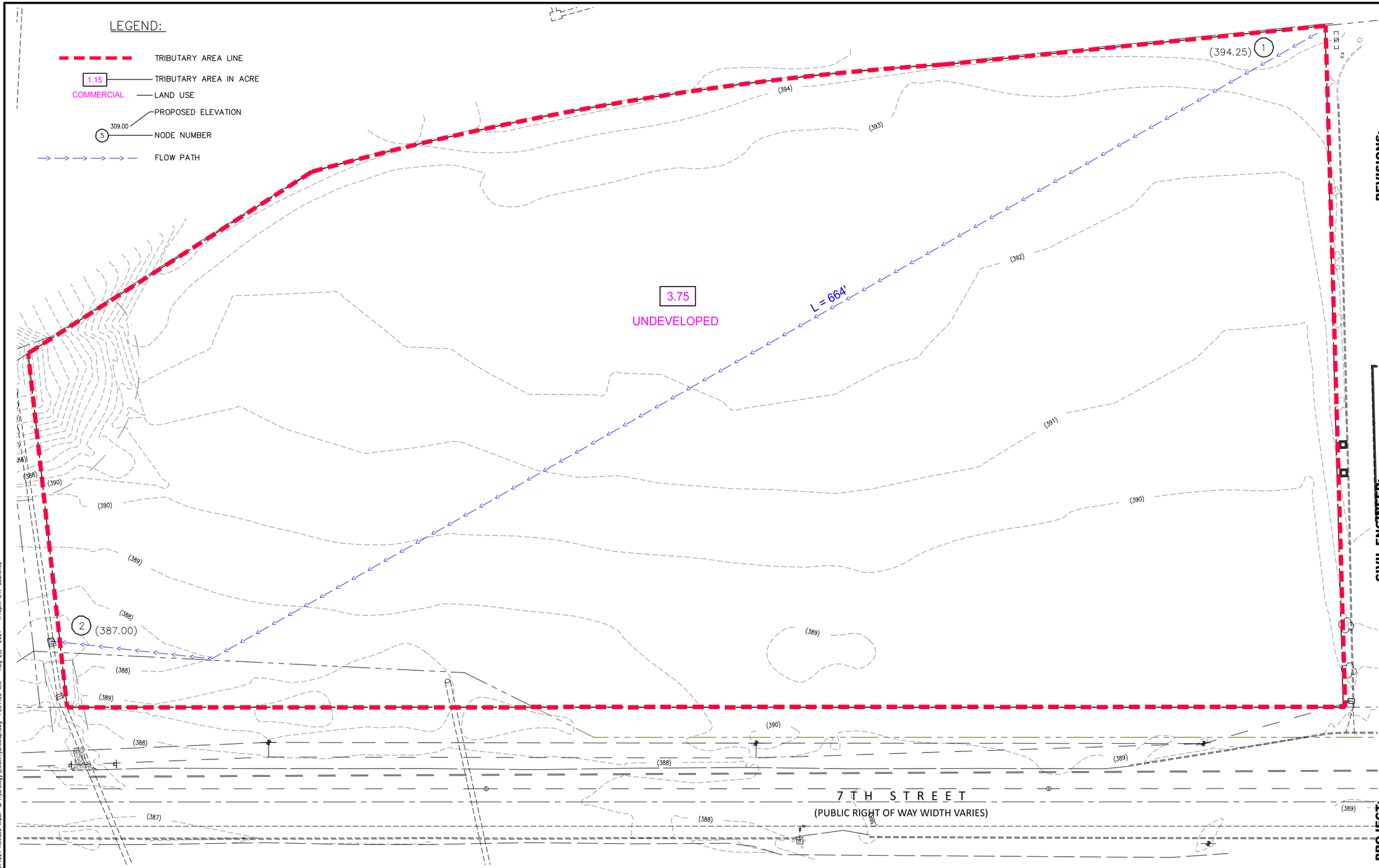
17+30	1.5794	0.37	|Q	|	|	|	V |
17+35	1.5820	0.37	|Q	|	|	|	V |
17+40	1.5845	0.37	|Q	|	|	|	V |
17+45	1.5871	0.38	|Q	|	|	|	V |
17+50	1.5897	0.37	|Q	|	|	|	V |
17+55	1.5921	0.36	|Q	|	|	|	V |
18+ 0	1.5945	0.33	|Q	|	|	|	V |
18+ 5	1.5967	0.33	|Q	|	|	|	V |
18+10	1.5989	0.32	|Q	|	|	|	V |
18+15	1.6011	0.32	|Q	|	|	|	V |
18+20	1.6033	0.32	|Q	|	|	|	V |
18+25	1.6055	0.32	|Q	|	|	|	V |
18+30	1.6076	0.31	|Q	|	|	|	V |
18+35	1.6097	0.31	|Q	|	|	|	V |
18+40	1.6117	0.29	|Q	|	|	|	V |
18+45	1.6135	0.26	|Q	|	|	|	V |
18+50	1.6152	0.25	Q	|	|	|	V |
18+55	1.6168	0.22	Q	|	|	|	V |
19+ 0	1.6181	0.20	Q	|	|	|	V |
19+ 5	1.6194	0.19	Q	|	|	|	V |
19+10	1.6208	0.20	Q	|	|	|	V |
19+15	1.6223	0.22	Q	|	|	|	V |
19+20	1.6239	0.23	Q	|	|	|	V |
19+25	1.6256	0.25	|Q	|	|	|	V |
19+30	1.6275	0.27	|Q	|	|	|	V |
19+35	1.6294	0.28	|Q	|	|	|	V |
19+40	1.6312	0.27	|Q	|	|	|	V |
19+45	1.6329	0.25	Q	|	|	|	V |
19+50	1.6346	0.24	Q	|	|	|	V |
19+55	1.6360	0.21	Q	|	|	|	V |
20+ 0	1.6373	0.19	Q	|	|	|	V |
20+ 5	1.6386	0.18	Q	|	|	|	V |
20+10	1.6399	0.20	Q	|	|	|	V |
20+15	1.6414	0.21	Q	|	|	|	V |
20+20	1.6430	0.22	Q	|	|	|	V |
20+25	1.6445	0.23	Q	|	|	|	V |
20+30	1.6461	0.23	Q	|	|	|	V |
20+35	1.6476	0.23	Q	|	|	|	V |
20+40	1.6492	0.23	Q	|	|	|	V |
20+45	1.6508	0.23	Q	|	|	|	V |
20+50	1.6523	0.22	Q	|	|	|	V |
20+55	1.6537	0.20	Q	|	|	|	V |
21+ 0	1.6550	0.18	Q	|	|	|	V |
21+ 5	1.6562	0.18	Q	|	|	|	V |
21+10	1.6576	0.19	Q	|	|	|	V |
21+15	1.6590	0.21	Q	|	|	|	V |
21+20	1.6605	0.22	Q	|	|	|	V|
21+25	1.6619	0.20	Q	|	|	|	V|
21+30	1.6631	0.18	Q	|	|	|	V|
21+35	1.6643	0.17	Q	|	|	|	V|
21+40	1.6656	0.19	Q	|	|	|	V|
21+45	1.6670	0.21	Q	|	|	|	V|
21+50	1.6685	0.21	Q	|	|	|	V|
21+55	1.6699	0.20	Q	|	|	|	V|
22+ 0	1.6711	0.18	Q	|	|	|	V|
22+ 5	1.6723	0.17	Q	|	|	|	V|
22+10	1.6736	0.19	Q	|	|	|	V|
22+15	1.6750	0.21	Q	|	|	|	V|
22+20	1.6765	0.21	Q	|	|	|	V|
22+25	1.6778	0.20	Q	|	|	|	V|
22+30	1.6791	0.18	Q	|	|	|	V|
22+35	1.6802	0.17	Q	|	|	|	V|
22+40	1.6813	0.16	Q	|	|	|	V|

22+45	1.6825	0.16	Q	|	|	|	V|
22+50	1.6836	0.16	Q	|	|	|	V|
22+55	1.6847	0.16	Q	|	|	|	V|
23+ 0	1.6857	0.16	Q	|	|	|	V|
23+ 5	1.6868	0.16	Q	|	|	|	V|
23+10	1.6879	0.16	Q	|	|	|	V|
23+15	1.6890	0.16	Q	|	|	|	V|
23+20	1.6900	0.16	Q	|	|	|	V|
23+25	1.6911	0.16	Q	|	|	|	V|
23+30	1.6922	0.15	Q	|	|	|	V|
23+35	1.6932	0.15	Q	|	|	|	V|
23+40	1.6943	0.15	Q	|	|	|	V|
23+45	1.6954	0.15	Q	|	|	|	V|
23+50	1.6964	0.15	Q	|	|	|	V|
23+55	1.6975	0.15	Q	|	|	|	V|
24+ 0	1.6986	0.15	Q	|	|	|	V|
24+ 5	1.6996	0.14	Q	|	|	|	V|
24+10	1.7003	0.10	Q	|	|	|	V|
24+15	1.7007	0.06	Q	|	|	|	V|
24+20	1.7010	0.04	Q	|	|	|	V|
24+25	1.7012	0.03	Q	|	|	|	V|
24+30	1.7013	0.02	Q	|	|	|	V|
24+35	1.7014	0.02	Q	|	|	|	V|
24+40	1.7015	0.01	Q	|	|	|	V|
24+45	1.7016	0.01	Q	|	|	|	V|
24+50	1.7016	0.01	Q	|	|	|	V|
24+55	1.7017	0.01	Q	|	|	|	V|
25+ 0	1.7017	0.00	Q	|	|	|	V|
25+ 5	1.7017	0.00	Q	|	|	|	V|
25+10	1.7017	0.00	Q	|	|	|	V|
25+15	1.7018	0.00	Q	|	|	|	V|
25+20	1.7018	0.00	Q	|	|	|	V

APPENDIX B
HYDROLOGY MAPS

LEGEND:

- TRIBUTARY AREA LINE
- 1.15 — TRIBUTARY AREA IN ACRE
- COMMERCIAL — LAND USE
- 309.00 — PROPOSED ELEVATION
- 5 — NODE NUMBER
- FLOW PATH



NODE	AREA (ac)	LAND USE	POST CONDITION					
			FLOWRATE (Q)–cfs			VOLUME (V)–cf		
			Q_2	Q_{10}	Q_{100}	V_2	V_{10}	V_{100}
1 TO 2	3.75	UNDEVELOPED	0.36	1.06	2.53	4,702	14,506	50,388

REVISIONS:

BY	DESCRIPTION	DATE

CIVIL ENGINEER:

REGISTERED PROFESSIONAL ENGINEER
GIL ZULUETA MENDOZA
No. 53454
Expires
June 30, 2023
CIVIL
STATE OF CALIFORNIA

Gil Zulueta Mendoza Associates, Inc.
6185 MAGNOLIA AVENUE, #129
RIVERSIDE, CA 92506
P: 951.368.9570 F: 815.425.8582
E-MAIL: gil@gzmassociates.com

GIL Z. MENDOZA, R.C.E. 53454 DATE

PROJECT:

HYROLOGY MAP - EXISTING CONDITION
EAST SIDE OF 7th STREET AND NORTH OF SANDALWOOD DRIVE
CALIMESA, CA 92320

Owner: SANDALWOOD TRAVEL CENTER, LP
PO BOX 1958
CORONA, CA 92878

Drawn DIS
Checked GZM
Engineer GZM
File 2323-0200
Date 08/23/21
Scale AS NOTED

Job No.
2323-0200

Sheet No.
1 OF 1

FILENAME: Z:\Projects\2323\0200\Ref\Alvin\071221 Revised WQMP & Hydrology\Exist-HydroMap.dwg PLOTTED ON: Aug 23, 2021 - 1:10pm BY: dsanchez

LEGEND:

- TRIBUTARY AREA LINE
- 1.15 — TRIBUTARY AREA IN ACRE
- COMMERCIAL — LAND USE
- 309.00 — PROPOSED ELEVATION
- 5 — NODE NUMBER
- FLOW PATH

INTERSTATE-10 FREEWAY OFF-RAMP (SOUTH -

TO REMAIN (JACK IN THE BOX)

NO PARKING

393.50

(P)STRIPING

(P)PYLON SIGN

(P)LIGHT POLE(TYP)

(P)6"CURB

(P)R.V. DUMPING STATION

(P)TRASH ENCLOSURE

(P)STRIPING

(P)LIGHT POLE(TYP)

(P)6"CURB

3.75

COMMERCIAL

(P)BUILDING
7,700 SF
390.37FF
389.37PAD

(P)RIBBON GUTTER

(P)CONCRETE

(P)AIR & WATER UNIT

(P)AIR & WATER

(P)6"CURB

(E)COLUMNS

(P)LIGHT POLE(TYP)

(P)6"CURB

(P)STRIPING(TYP)

GRADING LIMITS

(P)12" CONCRETE STEP OUT(TYP)

(P)DEAD END DROP INLET

(P)RIBBON GUTTER

(P)DEAD END DROP INLET

(P)RIBBON GUTTER

(P)STRIPING(TYP)

(P)STRIPING(TYP)

(P)LIGHT POLE(TYP)

(P)6"CURB

NO WORK IN THIS AREA

(P)PROPERTY LINE

GRADING LIMITS

PROP. 60" DIAM. CMP (L=22')
UNDERGROUND DETENTION BASIN
V=21,598 cf

(P)6"CURB

(P)STRIPING(TYP)

(P)BOLLARDS(TYP)

(P)TRANSFORMER

(E)PL

(P)UNDERGROUND DETENTION BASIN

(P)6"CURB & GUTTER

2

388.85

L = 567'

BIORETENTION 1
V=2,988 cf

BIORETENTION 2
V=2,671 cf

BIORETENTION 3
V=4,207 cf

(P)R/W

(P)PARKWAY DRAIN

(P)CONC. DITCH TO BE REMOVED

(P)SEWER MH REMOVE & UNDERGROUND

(E)SS MH (388.65RIM)

(E)R/W

(E)6" CURB DRAIN

C 7th STREET

NODE	AREA (ac)	LAND USE	POST CONDITION					
			FLOWRATE (Q)-cfs			VOLUME (V)-cf		
			Q_2	Q_{10}	Q_{100}	V_2	V_{10}	V_{100}
1 TO 2	3.75	COMMERCIAL	1.06	1.73	2.93	28,798	45,620	74,129

REVISIONS:

BY	DESCRIPTION	DATE

CIVIL ENGINEER:

Gil Zulueta Mendoza Associates, Inc.
6185 MAGNOLIA AVENUE, #129
RIVERSIDE, CA 92506
PH: 951.369.8800 FX: 815.425.8582
E-MAIL: gil@gzmassociates.com

GIL Z. MENDOZA, R.C.E. C53454 DATE

REGISTERED PROFESSIONAL ENGINEER
GIL ZULUETA MENDOZA
No. 53454
CIVIL
June 30, 2023
STATE OF CALIFORNIA

PROJECT:

HYROLOGY MAP - PROPOSED CONDITION
EAST SIDE OF 7th STREET AND NORTH OF SANDALWOOD DRIVE
CALIMESA, CA 92320

Owner: SANDALWOOD TRAVEL CENTER, LP
PO BOX 1958
CORONA, CA 92878

Drawn DIS
Checked GZM
Engineer GZM
File 2323-0200
Date 08/23/21
Scale AS NOTED

Job No.
2323-0200

Sheet No.
1 OF 1

FILENAME: Z:\Projects\2323\0200\Ref\Alvin\071221 Revised WQMP & Hydrology\Prop-HydroMap.dwg PLOTTED ON: Aug 23, 2021 - 1:07pm BY: dsanchez

Appendix G-2

Addendum Letter 1 to the Hydrology Report
Prepared by RAMCAM Engineering Group, Inc.,
August 2022

RAMCAM Engineering Group, Inc.
Land Development Planning and Engineering Design
670 E. Parkridge Ave., Suite #101
Corona, CA 92879-6606
Tel (951) 734-6330

The Hydrology Report documented the mitigation of the increased run of for the peak flow of Q2-24hr and Q100-24hr flow (CFS). "Per Table 1" below, the Q2-24hr peak flow of the pre and post conditions differential is greater than the Q100-24hr peak flow differential, so it controls for the sake of the calculations.

The peak flow per the printout of the Flood Hydrograph shows that the peak flow occurs at 13 hrs. and 50 min. The proposed Bioretention basins include a 6-inch ponding over a 36-inch amended soil layer. The calculations of the drawdown of the basins show a time of 16 hrs. and 28 min, exceeding the peak flow time.

To determine the basin sizing to accommodate the flow exceeding the Pre-Development peak flow of 0.256cfs, a routing program was run to size the retention volume needed as a split flow basin. It was determined that a flow of more than 0.31 (Ac/Ft) (13,503.6 cf) needs to be diverted into the proposed Bioretention Basins. The calculated basins capacity is 17,937.3 cf, which exceeds the demand for volume retention.

The WQMP documented the mitigation of the increased run of for the peak flow of Q2-24hr and to satisfy the Hydrologic Conditions of Concern (HCOC) mentioned above. Also documented maintaining the predevelopment peak flow as is required by the WQMP.

PRE-DEVELOPMENT

RAINFALL DATA YEAR	2YR- 24 HOUR STORM VOLUME (CF)	2YR- 24 HOUR PEAK FLOW RATE (CFS)	100YR- 24 HOUR STORM VOLUME (CF)	100YR- 24 HOUR PEAK FLOW RATE (CFS)
	3,083.8	**0.256**	34,471.7	2.387

POST DEVELOPMENT

RAINFALL DATA YEAR	2YR- 24HOUR STORM VOLUME (CF)	2-HOUR PEAK FLOW RATE (CFS)	100YR- 24HOUR STORM VOLUME (CF)	100YR- 24HOUR PEAK FLOW RATE (CFS)
	17,435.7	**0.720**	61,876.7	2.708
Delta flow	14,351.9	**0.464**		**0.321**

Respectfully submitted.

RAMCAM Engineering Group, Inc.



Imad Abugharbieh, P.E.

Appendix G-3

Addendum Letter 2 to the Hydrology Report
Prepared by Gil Zuleta Mendoza Associates Inc.,
July 2022

FLOOD HYDROGRAPH ROUTING PROGRAM
Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2009
Study date: 07/12/22

Routing of Post Development flow into Bioretention Basins
Q2-24hr
ROUTING THRU BIORETENTION BASINS

S/N 6409
********** HYDROGRAPH INFORMATION **********

From study/file name: 7thpost242.rte
**********HYDROGRAPH DATA**********
Number of intervals = 320
Time interval = 5.0 (Min.)
Maximum/Peak flow rate = 0.720 (CFS)
Total volume = 0.400 (Ac.Ft)
Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

****

++
Process from Point/Station 100.000 to Point/Station 100.000
**** FLOWBY BASIN ROUTING OR SPLIT FLOW ****
_____
All flow in excess of 0.26(CFS) is diverted
into stream number 2
Total volume of excess flow diverted into flowby
basin (stream number 2) is 0.09(Ac.Ft)
++
P R I N T O F S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals (CFS)

Time(h+m)	Volume(Ac.Ft)	Q(CFS)	0	0.1	0.1	0.2	0.3
0+ 5	0.0000	0.00	Q	|	|	|	|
0+10	0.0000	0.00	Q	|	|	|	|
0+15	0.0001	0.01	VQ	|	|	|	|
0+20	0.0002	0.01	VQ	|	|	|	|
0+25	0.0003	0.03	V Q	|	|	|	|
0+30	0.0006	0.04	V Q	|	|	|	|

```
0+35    0.0009    0.04  V    Q  |       |       |       |
0+40    0.0012    0.05  V     Q |       |       |       |
0+45    0.0017    0.06  V     Q|       |       |       |
0+50    0.0021    0.06  V      Q       |       |       |
0+55    0.0026    0.07  V      Q       |       |       |
1+ 0    0.0031    0.07  V      |Q      |       |       |
1+ 5    0.0036    0.08  V      | Q     |       |       |
1+10    0.0042    0.08  V      |  Q    |       |       |
1+15    0.0048    0.09  V      |  Q    |       |       |
1+20    0.0054    0.09  V      |  Q    |       |       |
1+25    0.0060    0.09  V      |  Q    |       |       |
1+30    0.0066    0.08  V      |  Q    |       |       |
1+35    0.0072    0.08  V      |  Q    |       |       |
1+40    0.0077    0.08  V      | Q     |       |       |
1+45    0.0083    0.08  |V     | Q     |       |       |
1+50    0.0089    0.08  |V     | Q     |       |       |
1+55    0.0095    0.08  |V     |  Q    |       |       |
2+ 0    0.0100    0.09  |V     |  Q    |       |       |
2+ 5    0.0107    0.09  |V     |  Q    |       |       |
2+10    0.0113    0.09  |V     |   Q   |       |       |
2+15    0.0120    0.10  |V     |   Q   |       |       |
2+20    0.0127    0.10  |V     |   Q   |       |       |
2+25    0.0134    0.10  |V     |   Q   |       |       |
2+30    0.0141    0.10  |V     |    Q  |       |       |
2+35    0.0148    0.10  |V     |    Q  |       |       |
2+40    0.0155    0.11  | V    |    Q  |       |       |
2+45    0.0163    0.11  | V    |     Q |       |       |
2+50    0.0171    0.11  | V    |     Q |       |       |
2+55    0.0179    0.12  | V    |      Q|       |       |
3+ 0    0.0188    0.12  | V    |      Q|       |       |
3+ 5    0.0196    0.13  | V    |      Q|       |       |
3+10    0.0205    0.13  | V    |       Q       |       |
3+15    0.0214    0.13  | V    |       Q       |       |
3+20    0.0223    0.13  | V    |       Q       |       |
3+25    0.0232    0.13  | V    |       Q       |       |
3+30    0.0241    0.13  |  V   |       Q       |       |
3+35    0.0251    0.13  |  V   |       Q       |       |
3+40    0.0260    0.13  |  V   |       Q       |       |
3+45    0.0269    0.13  |  V   |       |Q      |       |
3+50    0.0278    0.14  |  V   |       |Q      |       |
3+55    0.0288    0.14  |  V   |       |Q      |       |
4+ 0    0.0297    0.14  |  V   |       |Q      |       |
4+ 5    0.0307    0.14  |  V   |       | Q     |       |
4+10    0.0317    0.15  |   V  |       |  Q    |       |
4+15    0.0328    0.15  |   V  |       |  Q    |       |
4+20    0.0338    0.16  |   V  |       |   Q   |       |
4+25    0.0349    0.16  |   V  |       |   Q   |       |
4+30    0.0360    0.16  |   V  |       |    Q  |       |
4+35    0.0372    0.16  |   V  |       |    Q  |       |
4+40    0.0384    0.17  |   V  |       |     Q |       |
4+45    0.0396    0.18  |    V |       |     Q |       |
4+50    0.0408    0.18  |    V |       |      Q|       |
4+55    0.0421    0.18  |    V |       |      Q|       |
5+ 0    0.0434    0.19  |    V |       |      Q|       |
5+ 5    0.0447    0.19  |    V |       |      Q|       |
5+10    0.0460    0.20  |    V |       |       Q       |
```

```
5+15    0.0474    0.20 |   V  |      |       Q      |
5+20    0.0487    0.19 |   V  |      |       Q      |
5+25    0.0500    0.19 |   V  |      |      Q|      |
5+30    0.0513    0.18 |   V  |      |     Q |      |
5+35    0.0525    0.18 |   V  |      |     Q |      |
5+40    0.0538    0.19 |   V  |      |      Q|      |
5+45    0.0551    0.19 |   V  |      |      Q|      |
5+50    0.0564    0.19 |   V  |      |       Q      |
5+55    0.0578    0.20 |   V  |      |      |Q      |
6+ 0    0.0592    0.21 |   V  |      |      | Q     |
6+ 5    0.0607    0.21 |   V  |      |      | Q     |
6+10    0.0621    0.21 |    V |      |      |  Q    |
6+15    0.0636    0.21 |    V |      |      |  Q    |
6+20    0.0651    0.22 |    V |      |      |   Q   |
6+25    0.0667    0.23 |    V |      |      |    Q  |
6+30    0.0683    0.23 |    V |      |      |    Q  |
6+35    0.0699    0.23 |    V|      |      |    Q  |
6+40    0.0715    0.24 |    V|      |      |     Q |
6+45    0.0732    0.24 |    V|      |      |     Q |
6+50    0.0749    0.25 |    V|      |      |     Q |
6+55    0.0766    0.25 |    V|      |      |      Q|
7+ 0    0.0784    0.26 |     V      |      |      Q
7+ 5    0.0801    0.26 |     V      |      |      Q
7+10    0.0819    0.26 |      V     |      |      Q
7+15    0.0837    0.26 |      V     |      |      Q
7+20    0.0854    0.26 |       V    |      |      Q
7+25    0.0872    0.26 |      |V    |      |      Q
7+30    0.0889    0.26 |      |V    |      |      Q
7+35    0.0907    0.26 |      |V    |      |      Q
7+40    0.0925    0.26 |      |V    |      |      Q
7+45    0.0942    0.26 |      | V   |      |      Q
7+50    0.0960    0.26 |      | V   |      |      Q
7+55    0.0978    0.26 |      | V   |      |      Q
8+ 0    0.0995    0.26 |      | V   |      |      Q
8+ 5    0.1013    0.26 |      |  V  |      |      Q
8+10    0.1030    0.26 |      |  V  |      |      Q
8+15    0.1048    0.26 |      |  V  |      |      Q
8+20    0.1066    0.26 |      |  V  |      |      Q
8+25    0.1083    0.26 |      |  V  |      |      Q
8+30    0.1097    0.20 |      |  V  |      |Q     |
8+35    0.1107    0.14 |      |  V  |Q     |      |
8+40    0.1114    0.11 |      |  V  Q |     |      |
8+45    0.1121    0.10 |      |  VQ  |      |      |
8+50    0.1127    0.09 |      | QV   |      |      |
8+55    0.1133    0.09 |      | QV   |      |      |
9+ 0    0.1139    0.09 |      |  QV  |      |      |
9+ 5    0.1145    0.09 |      |  QV  |      |      |
9+10    0.1151    0.09 |      |   Q  |      |      |
9+15    0.1158    0.10 |      |   VQ |      |      |
9+20    0.1166    0.11 |      |    V Q |    |      |
9+25    0.1175    0.13 |      |    V  Q|    |      |
9+30    0.1184    0.14 |      |    V  |Q    |      |
9+35    0.1195    0.15 |      |    V  |  Q  |      |
9+40    0.1207    0.17 |      |    V  |    Q |      |
9+45    0.1219    0.18 |      |    V  |     Q|      |
9+50    0.1233    0.20 |      |    V  |      Q      |
```

9+55	0.1247	0.21		V		Q	
10+ 0	0.1263	0.23		V		Q	
10+ 5	0.1279	0.23		V		Q	
10+10	0.1295	0.24		V		Q	
10+15	0.1312	0.23		V		Q	
10+20	0.1326	0.22		V		Q	
10+25	0.1338	0.17		V	Q		
10+30	0.1347	0.13		V	Q		
10+35	0.1356	0.12		V	Q		
10+40	0.1364	0.12		V	Q		
10+45	0.1372	0.12		V	Q		
10+50	0.1382	0.14		V	Q		
10+55	0.1394	0.17		V	Q		
11+ 0	0.1407	0.20		V		Q	
11+ 5	0.1421	0.21		V		Q	
11+10	0.1436	0.21		V		Q	
11+15	0.1451	0.22		V		Q	
11+20	0.1467	0.22		V		Q	
11+25	0.1482	0.22		V		Q	
11+30	0.1497	0.22		V		Q	
11+35	0.1512	0.22		V		Q	
11+40	0.1527	0.22		V		Q	
11+45	0.1542	0.22		V		Q	
11+50	0.1557	0.21		V		Q	
11+55	0.1571	0.20		V		Q	
12+ 0	0.1585	0.20		V		Q	
12+ 5	0.1598	0.20		V		Q	
12+10	0.1613	0.22		V		Q	
12+15	0.1629	0.23		V		Q	
12+20	0.1647	0.26		V			Q
12+25	0.1665	0.26		V			Q
12+30	0.1682	0.26		V			Q
12+35	0.1700	0.26		V			Q
12+40	0.1717	0.26		V			Q
12+45	0.1735	0.26		V			Q
12+50	0.1753	0.26		V			Q
12+55	0.1770	0.26		V			Q
13+ 0	0.1788	0.26		V			Q
13+ 5	0.1806	0.26		V			Q
13+10	0.1823	0.26		V			Q
13+15	0.1841	0.26		V			Q
13+20	0.1859	0.26		V			Q
13+25	0.1876	0.26		V			Q
13+30	0.1894	0.26		V			Q
13+35	0.1911	0.26		V			Q
13+40	0.1929	0.26		V			Q
13+45	0.1947	0.26		V			Q
13+50	0.1964	0.26		V			Q
13+55	0.1982	0.26		V			Q
14+ 0	0.2000	0.26		V			Q
14+ 5	0.2017	0.26		V			Q
14+10	0.2035	0.26		V			Q
14+15	0.2052	0.26		V			Q
14+20	0.2070	0.26		V			Q
14+25	0.2088	0.26		V			Q
14+30	0.2105	0.26		V			Q

| | | |

19+15	0.2801	0.07	|Q	|	|	V |
19+20	0.2806	0.07	|Q	|	|	V |
19+25	0.2811	0.08	| Q	|	|	V |
19+30	0.2817	0.08	| Q	|	|	V |
19+35	0.2823	0.09	| Q	|	|	V |
19+40	0.2830	0.09	| Q	|	|	V |
19+45	0.2836	0.09	| Q	|	|	V |
19+50	0.2842	0.09	| Q	|	|	V |
19+55	0.2849	0.09	| Q	|	|	V |
20+ 0	0.2854	0.08	| Q	|	|	V |
20+ 5	0.2860	0.08	| Q	|	|	V |
20+10	0.2865	0.07	|Q	|	|	V |
20+15	0.2870	0.07	|Q	|	|	V |
20+20	0.2875	0.07	|Q	|	|	V |
20+25	0.2880	0.08	|Q	|	|	V |
20+30	0.2885	0.08	| Q	|	|	V |
20+35	0.2891	0.08	| Q	|	|	V |
20+40	0.2896	0.08	| Q	|	|	V |
20+45	0.2902	0.08	| Q	|	|	V |
20+50	0.2907	0.08	| Q	|	|	V |
20+55	0.2913	0.08	| Q	|	|	V |
21+ 0	0.2918	0.08	| Q	|	|	V |
21+ 5	0.2923	0.08	|Q	|	|	V |
21+10	0.2928	0.07	|Q	|	|	V |
21+15	0.2933	0.07	Q	|	|	V |
21+20	0.2937	0.07	Q	|	|	V |
21+25	0.2942	0.07	|Q	|	|	V |
21+30	0.2947	0.07	|Q	|	|	V |
21+35	0.2952	0.07	|Q	|	|	V |
21+40	0.2957	0.07	Q	|	|	V |
21+45	0.2961	0.07	Q	|	|	V |
21+50	0.2966	0.07	Q	|	|	V |
21+55	0.2971	0.07	Q	|	|	V |
22+ 0	0.2976	0.07	|Q	|	|	V |
22+ 5	0.2981	0.07	|Q	|	|	V |
22+10	0.2985	0.07	Q	|	|	V |
22+15	0.2990	0.07	Q	|	|	V |
22+20	0.2994	0.07	Q	|	|	V |
22+25	0.2999	0.07	Q	|	|	V |
22+30	0.3004	0.07	|Q	|	|	V |
22+35	0.3009	0.07	Q	|	|	V |
22+40	0.3013	0.07	Q	|	|	V |
22+45	0.3018	0.06	Q|	|	|	V |
22+50	0.3022	0.06	Q|	|	|	V |
22+55	0.3026	0.06	Q|	|	|	V|
23+ 0	0.3030	0.06	Q|	|	|	V|
23+ 5	0.3034	0.06	Q|	|	|	V|
23+10	0.3038	0.06	Q |	|	|	V|
23+15	0.3042	0.06	Q |	|	|	V|
23+20	0.3046	0.06	Q |	|	|	V|
23+25	0.3049	0.06	Q |	|	|	V|
23+30	0.3053	0.06	Q |	|	|	V|
23+35	0.3057	0.06	Q |	|	|	V|
23+40	0.3061	0.06	Q |	|	|	V|
23+45	0.3065	0.06	Q |	|	|	V|
23+50	0.3068	0.05	Q |	|	|	V|

```
23+55     0.3072     0.05 |      Q |       |       |      V|
24+ 0     0.3076     0.05 |      Q |       |       |      V|
24+ 5     0.3080     0.05 |      Q |       |       |      V|
24+10     0.3083     0.05 |      Q |       |       |      V|
24+15     0.3087     0.05 |      Q |       |       |      V|
24+20     0.3090     0.04 |     Q  |       |       |      V|
24+25     0.3092     0.03 |    Q   |       |       |      V|
24+30     0.3093     0.02 |   Q    |       |       |      V|
24+35     0.3094     0.02 |  Q     |       |       |      V|
24+40     0.3095     0.01 |  Q     |       |       |      V|
24+45     0.3096     0.01 | Q      |       |       |      V|
24+50     0.3097     0.01 | Q      |       |       |      V|
24+55     0.3097     0.01 | Q      |       |       |      V|
25+ 0     0.3098     0.01  Q       |       |       |      V|
25+ 5     0.3098     0.01  Q       |       |       |      V|
25+10     0.3098     0.00  Q       |       |       |      V|
25+15     0.3099     0.00  Q       |       |       |      V|
25+20     0.3099     0.00  Q       |       |       |      V|
25+25     0.3099     0.00  Q       |       |       |      V|
25+30     0.3099     0.00  Q       |       |       |      V|
25+35     0.3099     0.00  Q       |       |       |      V|
25+40     0.3099     0.00  Q       |       |       |      V|
25+45     0.3099     0.00  Q       |       |       |      V|
25+50     0.3099     0.00  Q       |       |       |      V|
25+55     0.3099     0.00  Q       |       |       |      V|
26+ 0     0.3099     0.00  Q       |       |       |      V|
26+ 5     0.3099     0.00  Q       |       |       |      V|
26+10     0.3099     0.00  Q       |       |       |      V|
26+15     0.3099     0.00  Q       |       |       |      V|
26+20     0.3099     0.00  Q       |       |       |      V|
26+25     0.3099     0.00  Q       |       |       |      V|
26+30     0.3099     0.00  Q       |       |       |      V|
26+35     0.3099     0.00  Q       |       |       |      V|
26+40     0.3099     0.00  Q       |       |       |       V
--------------------------------------------------------------------
          ****************************HYDROGRAPH DATA****************************
                        Number of intervals =   320
                        Time interval =    5.0 (Min.)
                        Maximum/Peak flow rate =       0.256 (CFS)
                        Total volume =       0.310 (Ac.Ft)
                  Status of hydrographs being held in storage
                           Stream 1  Stream 2  Stream 3  Stream 4  Stream 5
                  Peak (CFS)     0.000     0.464     0.000     0.000     0.000
                  Vol (Ac.Ft)    0.000     0.090     0.000     0.000     0.000
          ************************************************************************
```

Appendix H

Water Quality Management Plan

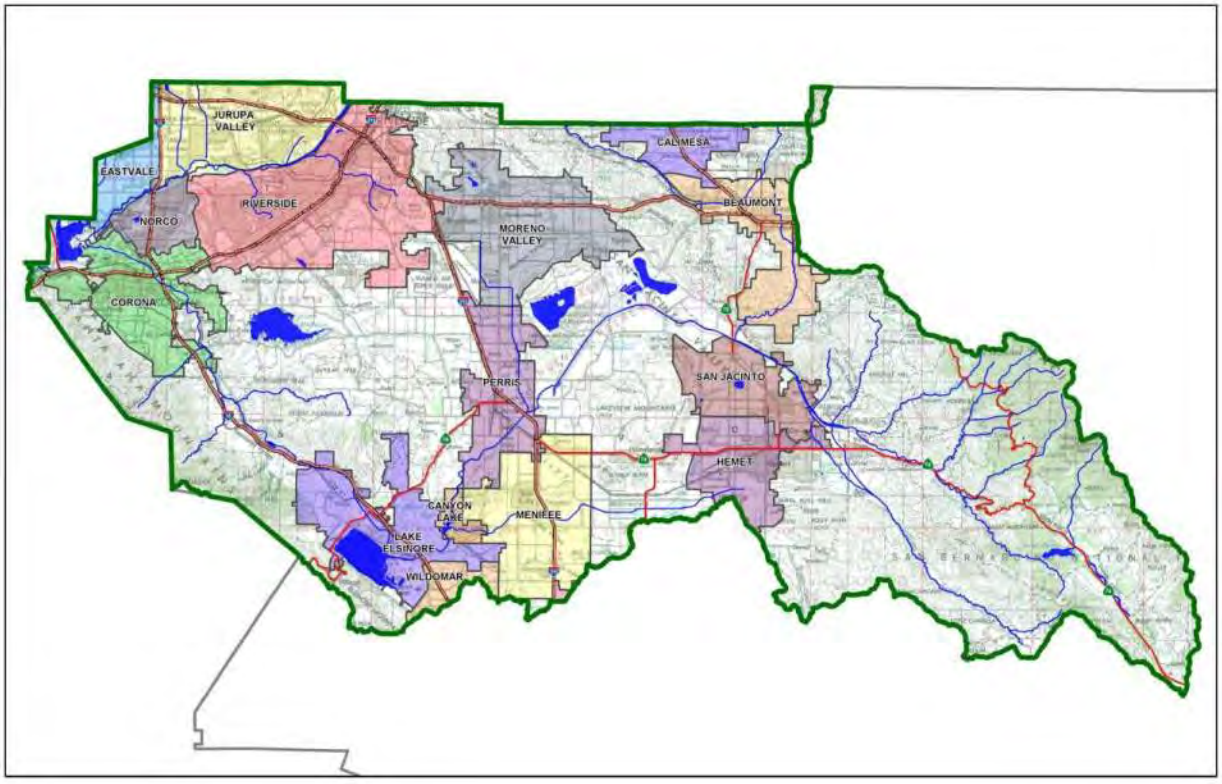
Project Specific Water Quality Management Plan

*A Template for Projects located within the **Santa Ana Watershed** Region of Riverside County*

Project Title: 7th Street Gas Station

Development No: TBD

Design Review/Case No: TBD



☒ **Preliminary**
☐ **Final**

Original Date Prepared: February 20, 2021

Revision Date(s):

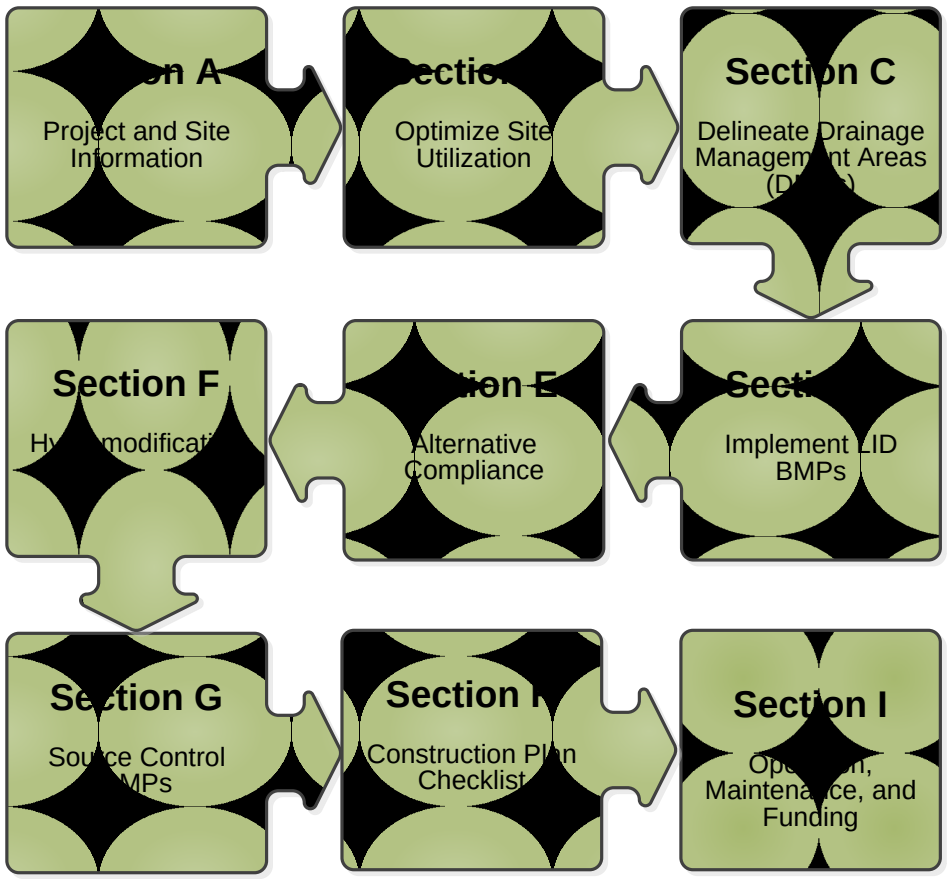
Prepared for Compliance with
Regional Board Order No. **R8-2010-0033**
Template revised June 30, 2016

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A Brief Introduction

This Project-Specific WQMP Template for the **Santa Ana Region** has been prepared to help guide you in documenting compliance for your project. Because this document has been designed to specifically document compliance, you will need to utilize the WQMP Guidance Document as your "how-to" manual to help guide you through this process. Both the Template and Guidance Document go hand-in-hand, and will help facilitate a well prepared Project-Specific WQMP. Below is a flowchart for the layout of this Template that will provide the steps required to document compliance.



OWNER'S CERTIFICATION

This Project-Specific Water Quality Management Plan (WQMP) has been prepared for Sandalwood Travel Center, LP by Gil Mendoza for the 7th Street Gas Station project.

This WQMP is intended to comply with the requirements of Calimesa for <Insert Ordinance No.> which includes the requirement for the preparation and implementation of a Project-Specific WQMP.

The undersigned, while owning the property/project described in the preceding paragraph, shall be responsible for the implementation and funding of this WQMP and will ensure that this WQMP is amended as appropriate to reflect up-to-date conditions on the site. In addition, the property owner accepts responsibility for interim operation and maintenance of Stormwater BMPs until such time as this responsibility is formally transferred to a subsequent owner. This WQMP will be reviewed with the facility operator, facility supervisors, employees, tenants, maintenance and service contractors, or any other party (or parties) having responsibility for implementing portions of this WQMP. At least one copy of this WQMP will be maintained at the project site or project office in perpetuity. The undersigned is authorized to certify and to approve implementation of this WQMP. The undersigned is aware that implementation of this WQMP is enforceable under Calimesa Water Quality Ordinance (Municipal Code Section).

"I, the undersigned, certify under penalty of law that the provisions of this WQMP have been reviewed and accepted and that the WQMP will be transferred to future successors in interest."

Owner's Signature	Date
Owner's Printed Name	Owner's Title/Position

PREPARER'S CERTIFICATION

"The selection, sizing and design of stormwater treatment and other stormwater quality and quantity control measures in this plan meet the requirements of Regional Water Quality Control Board Order No. **R8-2010-0033** and any subsequent amendments thereto."

Preparer's Signature	Date
Preparer's Printed Name	Preparer's Title/Position

Preparer's Licensure:

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Section A: Project and Site Information

PROJECT INFORMATION			
Type of Project:	Commercial		
Planning Area:			
Community Name:	Calimesa		
Development Name:	Gas Station		
PROJECT LOCATION			
Latitude & Longitude (DMS): 33.8925, -117.3648			
Project Watershed and Sub-Watershed: San Timoteo Creek, Santa Ana River			
Gross Acres: 3.75			
APN(s):			
Map Book and Page No.:			
PROJECT CHARACTERISTICS			
Proposed or Potential Land Use(s)		Commercial	
Proposed or Potential SIC Code(s)		Insert text here	
Area of Impervious Project Footprint (SF)		136,799	
Total Area of proposed Impervious Surfaces within the Project Footprint (SF)/or Replacement		136,799	
Does the project consist of offsite road improvements?		☐ Y	☒ N
Does the project propose to construct unpaved roads?		☐ Y	☒ N
Is the project part of a larger common plan of development (phased project)?		☐ Y	☒ N
EXISTING SITE CHARACTERISTICS			
Total area of existing Impervious Surfaces within the Project limits Footprint (SF)		0	
Is the project located within any MSHCP Criteria Cell?		☐ Y	☒ N
If so, identify the Cell number:			
Are there any natural hydrologic features on the project site?		☐ Y	☒ N
Is a Geotechnical Report attached?		☒ Y	☐ N
If no Geotech. Report, list the NRCS soils type(s) present on the site (A, B, C and/or D)			
What is the Water Quality Design Storm Depth for the project?		0.80	

A.1 Maps and Site Plans

When completing your Project-Specific WQMP, include a map of the local vicinity and existing site. In addition, include all grading, drainage, landscape/plant palette and other pertinent construction plans in Appendix 2. At a **minimum**, your WQMP Site Plan should include the following:

- Drainage Management Areas
- Proposed Structural BMPs
- Drainage Path
- Drainage Infrastructure, Inlets, Overflows
- Source Control BMPs
- Buildings, Roof Lines, Downspouts
- Impervious Surfaces
- Standard Labeling
- BMP Locations (Lat/Long)

Use your discretion on whether or not you may need to create multiple sheets or can appropriately accommodate these features on one or two sheets. Keep in mind that the Co-Permittee plan reviewer must be able to easily analyze your project utilizing this template and its associated site plans and maps.

A.2 Identify Receiving Waters

Using Table A.1 below, list in order of upstream to downstream, the receiving waters that the project site is tributary to. Continue to fill each row with the Receiving Water's 303(d) listed impairments (if any), designated beneficial uses, and proximity, if any, to a RARE beneficial use. Include a map of the receiving waters in Appendix 1.

Table A.1 Identification of Receiving Waters

Receiving Waters	EPA Approved 303(d) List Impairments	Designated Beneficial Uses	Proximity to RARE Beneficial Use
San Timoteo Creek			
Santa Ana River 4, 3, 2	Pathogens	AGR, GWR, REC1, REC2, WARM, WILD, RARE, SPWN	

A.3 Additional Permits/Approvals required for the Project:

Table A.2 Other Applicable Permits

Agency	Permit Required	
State Department of Fish and Game, 1602 Streambed Alteration Agreement	☐ Y	☒ N
State Water Resources Control Board, Clean Water Act (CWA) Section 401 Water Quality Cert.	☐ Y	☒ N
US Army Corps of Engineers, CWA Section 404 Permit	☐ Y	☒ N
US Fish and Wildlife, Endangered Species Act Section 7 Biological Opinion	☐ Y	☒ N
Statewide Construction General Permit Coverage	☐ Y	☒ N
Statewide Industrial General Permit Coverage	☐ Y	☒ N
Western Riverside MSHCP Consistency Approval (e.g., JPR, DBESP)	☐ Y	☒ N
Other *(please list in the space below as required)*	☐ Y	☐ N

If yes is answered to any of the questions above, the Co-Permittee may require proof of approval/coverage from those agencies as applicable including documentation of any associated requirements that may affect this Project-Specific WQMP.

Section B: Optimize Site Utilization (LID Principles)

Review of the information collected in Section 'A' will aid in identifying the principal constraints on site design and selection of LID BMPs as well as opportunities to reduce imperviousness and incorporate LID Principles into the site and landscape design. For example, **constraints** might include impermeable soils, high groundwater, groundwater pollution or contaminated soils, steep slopes, geotechnical instability, high-intensity land use, heavy pedestrian or vehicular traffic, utility locations or safety concerns. **Opportunities** might include existing natural areas, low areas, oddly configured or otherwise unbuildable parcels, easements and landscape amenities including open space and buffers (which can double as locations for bioretention BMPs), and differences in elevation (which can provide hydraulic head). Prepare a brief narrative for each of the site optimization strategies described below. This narrative will help you as you proceed with your LID design and explain your design decisions to others.

The 2010 Santa Ana MS4 Permit further requires that LID Retention BMPs (Infiltration Only or Harvest and Use) be used unless it can be shown that those BMPs are infeasible. Therefore, it is important that your narrative identify and justify if there are any constraints that would prevent the use of those categories of LID BMPs. Similarly, you should also note opportunities that exist which will be utilized during project design. Upon completion of identifying Constraints and Opportunities, include these on your WQMP Site plan in Appendix 1.

Consideration of "highest and best use" of the discharge should also be considered. For example, Lake Elsinore is evaporating faster than runoff from natural precipitation can recharge it. Requiring infiltration of 85% of runoff events for projects tributary to Lake Elsinore would only exacerbate current water quality problems associated with Pollutant concentration due to lake water evaporation. In cases where rainfall events have low potential to recharge Lake Elsinore (i.e. no hydraulic connection between groundwater to Lake Elsinore, or other factors), requiring infiltration of Urban Runoff from projects is counterproductive to the overall watershed goals. Project proponents, in these cases, would be allowed to discharge Urban Runoff, provided they used equally effective filtration-based BMPs.

Site Optimization

The following questions are based upon Section 3.2 of the WQMP Guidance Document. Review of the WQMP Guidance Document will help you determine how best to optimize your site and subsequently identify opportunities and/or constraints, and document compliance.

Did you identify and preserve existing drainage patterns? If so, how? If not, why?

Existing drainage patterns could not be preserved. The proposed project requires the entire site to be disturbed.

Did you identify and protect existing vegetation? If so, how? If not, why?

There are no existing vegetation to be preserved.

Did you identify and preserve natural infiltration capacity? If so, how? If not, why?

Natural infiltration capacity couldn't be preserved. The proposed project requires the entire site to be disturbed.

Did you identify and minimize impervious area? If so, how? If not, why?

Impervious area in the proposed development is based on the City's minimum requirement.

Did you identify and disperse runoff to adjacent pervious areas? If so, how? If not, why?

Yes, runoff generated from the project will be discharge into bioretentions.

Section C: Delineate Drainage Management Areas (DMAs)

Utilizing the procedure in Section 3.3 of the WQMP Guidance Document which discusses the methods of delineating and mapping your project site into individual DMAs, complete Table C.1 below to appropriately categorize the types of classification (e.g., Type A, Type B, etc.) per DMA for your project site. Upon completion of this table, this information will then be used to populate and tabulate the corresponding tables for their respective DMA classifications.

Table C.1 DMA Classifications

DMA Name or ID	Surface Type(s)[1][2]	Area (Sq. Ft.)	DMA Type
DMA1 A/1	Landscaped	10,939	Self-Treating Areas
DMA1 D/1	Concrete / AC Pavement	39,571	Draining to BMPS (Bioretention)
DMA1 D/2	Roofs	4,726	Draining to BMPS (Bioretention)
DMA2 A/1	Landscaped	15,488	Self-Treating Areas
DMA2 D/1	Concrete / AC Pavement	81,783	Draining to BMPS (Bioretention)
DMA2 D/2	Roofs	10,719	Draining to BMPS (Bioretention)

[1] *Reference Table 2-1 in the WQMP Guidance Document to populate this column*
[2] *If multi-surface provide back-up*

Table C.2 Type 'A', Self-Treating Areas

DMA Name or ID	**Area (Sq. Ft.)**	**Stabilization Type**	**Irrigation Type (if any)**
DMA1 A/1	10,939	Landscaped	Drip Irrigation
DMA2 A/1	15,488	Landscaped	Drip Irrigation

Table C.3 Type 'B', Self-Retaining Areas

Self-Retaining Area				**Type 'C' DMAs that are draining to the Self-Retaining Area**		
DMA Name/ ID	Post-project surface type	Area (square feet) [A]	Storm Depth (inches) [B]	DMA Name / ID	[C] from Table C.4 =	Required Retention Depth (inches) [D]

$$[D] = [B] + \frac{[B] \cdot [C]}{[A]}$$

Table C.4 Type 'C', Areas that Drain to Self-Retaining Areas

DMA					**Receiving Self-Retaining DMA**		
DMA Name/ ID	Area (square feet)	Post-project surface type	Impervious fraction	Product		Area (square feet)	Ratio
	[A]		[B]	[C] = [A] x [B]	DMA name /ID	[D]	[C]/[D]

Table C.5 Type 'D', Areas Draining to BMPs

DMA Name or ID	BMP Name or ID
DMA1 D/1	Biorention 1
DMA1 D/2	Biorention 1
DMA2 D/1	Biorention 3
DMA2 D/2	Biorention 2

Note: More than one drainage management area can drain to a single LID BMP, however, one drainage management area may not drain to more than one BMP.

Section D: Implement LID BMPs

D.1 Infiltration Applicability

Is there an approved downstream 'Highest and Best Use' for stormwater runoff (see discussion in Chapter 2.4.4 of the WQMP Guidance Document for further details)? ☐ Y ☒ N

If yes has been checked, Infiltration BMPs shall not be used for the site; proceed to section D.3

If no, continue working through this section to implement your LID BMPs. It is recommended that you contact your Co-Permittee to verify whether or not your project discharges to an approved downstream 'Highest and Best Use' feature.

Geotechnical Report

A Geotechnical Report or Phase I Environmental Site Assessment may be required by the Copermittee to confirm present and past site characteristics that may affect the use of Infiltration BMPs. In addition, the Co-Permittee, at their discretion, may not require a geotechnical report for small projects as described in Chapter 2 of the WQMP Guidance Document. If a geotechnical report has been prepared, include it in Appendix 3. In addition, if a Phase I Environmental Site Assessment has been prepared, include it in Appendix 4.

Is this project classified as a small project consistent with the requirements of Chapter 2 of the WQMP Guidance Document? ☐ Y ☒ N

Infiltration Feasibility

Table D.1 below is meant to provide a simple means of assessing which DMAs on your site support Infiltration BMPs and is discussed in the WQMP Guidance Document in Chapter 2.4.5. Check the appropriate box for each question and then list affected DMAs as applicable. If additional space is needed, add a row below the corresponding answer.

Table D.1 Infiltration Feasibility

Does the project site…	YES	NO
…have any DMAs with a seasonal high groundwater mark shallower than 10 feet?		X
If Yes, list affected DMAs:		
…have any DMAs located within 100 feet of a water supply well?		X
If Yes, list affected DMAs:		
…have any areas identified by the geotechnical report as posing a public safety risk where infiltration of stormwater could have a negative impact?		X
If Yes, list affected DMAs:		
…have measured in-situ infiltration rates of less than 1.6 inches / hour?	X	
If Yes, list affected DMAs:		
…have significant cut and/or fill conditions that would preclude in-situ testing of infiltration rates at the final infiltration surface?		X
If Yes, list affected DMAs:		
…geotechnical report identify other site-specific factors that would preclude effective and safe infiltration?		X
Describe here:		

If you answered "Yes" to any of the questions above for any DMA, Infiltration BMPs should not be used for those DMAs and you should proceed to the assessment for Harvest and Use below.

D.2 Harvest and Use Assessment

Please check what applies*:*

☐ Reclaimed water will be used for the non-potable water demands for the project.

☐Downstream water rights may be impacted by Harvest and Use as approved by the Regional Board (verify with the Copermittee).

☐The Design Capture Volume will be addressed using Infiltration Only BMPs. In such a case, Harvest and Use BMPs are still encouraged, but it would not be required if the Design Capture Volume will be infiltrated or evapotranspired.

If any of the above boxes have been checked, Harvest and Use BMPs need not be assessed for the site. If none of the above criteria applies, follow the steps below to assess the feasibility of irrigation use, toilet use and other non-potable uses (e.g., industrial use).

Irrigation Use Feasibility

Complete the following steps to determine the feasibility of harvesting stormwater runoff for Irrigation Use BMPs on your site:

Step 1: Identify the total area of irrigated landscape on the site, and the type of landscaping used.

Total Area of Irrigated Landscape: 0.86

Type of Landscaping (Conservation Design or Active Turf): Conservation Design

Step 2: Identify the planned total of all impervious areas on the proposed project from which runoff might be feasibly captured and stored for irrigation use. Depending on the configuration of buildings and other impervious areas on the site, you may consider the site as a whole, or parts of the site, to evaluate reasonable scenarios for capturing and storing runoff and directing the stored runoff to the potential use(s) identified in Step 1 above.

Total Area of Impervious Surfaces: 3.14

Step 3: Cross reference the Design Storm depth for the project site (see Exhibit A of the WQMP Guidance Document) with the left column of Table 2-3 in Chapter 2 to determine the minimum area of Effective Irrigated Area per Tributary Impervious Area (EIATIA).

Enter your EIATIA factor: 1.85

Step 4: Multiply the unit value obtained from Step 3 by the total of impervious areas from Step 2 to develop the minimum irrigated area that would be required.

Minimum required irrigated area: 5.81

Step 5: Determine if harvesting stormwater runoff for irrigation use is feasible for the project by comparing the total area of irrigated landscape (Step 1) to the minimum required irrigated area (Step 4).

Minimum required irrigated area (Step 4)	Available Irrigated Landscape (Step 1)
5.81	0.86

Toilet Use Feasibility

Complete the following steps to determine the feasibility of harvesting stormwater runoff for toilet flushing uses on your site:

Step 1: Identify the projected total number of daily toilet users during the wet season, and account for any periodic shut downs or other lapses in occupancy:

Projected Number of Daily Toilet Users: 4

Project Type: Commercial

Step 2: Identify the planned total of all impervious areas on the proposed project from which runoff might be feasibly captured and stored for toilet use. Depending on the configuration of buildings and other impervious areas on the site, you may consider the site as a whole, or parts of the site, to evaluate reasonable scenarios for capturing and storing runoff and directing the stored runoff to the potential use(s) identified in Step 1 above.

Total Area of Impervious Surfaces: 3.14

Step 3: Enter the Design Storm depth for the project site (see Exhibit A) into the left column of Table 2-2 in Chapter 2 to determine the minimum number or toilet users per tributary impervious acre (TUTIA).

Enter your TUTIA factor: 167

Step 4: Multiply the unit value obtained from Step 3 by the total of impervious areas from Step 2 to develop the minimum number of toilet users that would be required.

Minimum number of toilet users: 524

Step 5: Determine if harvesting stormwater runoff for toilet flushing use is feasible for the project by comparing the Number of Daily Toilet Users (Step 1) to the minimum required number of toilet users (Step 4).

Minimum required Toilet Users (Step 4)	Projected number of toilet users (Step 1)
524	4

Other Non-Potable Use Feasibility

Are there other non-potable uses for stormwater runoff on the site (e.g. industrial use)? See Chapter 2 of the Guidance for further information. If yes, describe below. If no, write N/A.

N/A

Step 1: Identify the projected average daily non-potable demand, in gallons per day, during the wet season and accounting for any periodic shut downs or other lapses in occupancy or operation.

Average Daily Demand:

Step 2: Identify the planned total of all impervious areas on the proposed project from which runoff might be feasibly captured and stored for the identified non-potable use. Depending on the configuration of buildings and other impervious areas on the site, you may consider the site as a whole, or parts of the site, to evaluate reasonable scenarios for capturing and storing runoff and directing the stored runoff to the potential use(s) identified in Step 1 above.

Total Area of Impervious Surfaces:

Step 3: Enter the Design Storm depth for the project site (see Exhibit A) into the left column of Table 2-4 in Chapter 2 to determine the minimum demand for non-potable uses per tributary impervious acre.

Enter the factor from Table 2-4:

Step 4: Multiply the unit value obtained from Step 3 by the total of impervious areas from Step 2 to develop the minimum number of gallons per day of non-potable use that would be required.

Minimum required use:

Step 5: Determine if harvesting stormwater runoff for other non-potable use is feasible for the project by comparing the projected average daily use (Step 1) to the minimum required non-potable use (Step 4).

Minimum required non-potable use (Step 4)	**Projected average daily use (Step 1)**

If Irrigation, Toilet and Other Use feasibility anticipated demands are less than the applicable minimum values, Harvest and Use BMPs are not required and you should proceed to utilize LID Bioretention and Biotreatment per Section 3.4.2 of the WQMP Guidance Document.

D.3 Bioretention and Biotreatment Assessment

Other LID Bioretention and Biotreatment BMPs as described in Chapter 2.4.7 of the WQMP Guidance Document are feasible on nearly all development sites with sufficient advance planning.

Select one of the following:

X LID Bioretention/Biotreatment BMPs will be used for some or all DMAs of the project as noted below in Section D.4 (note the requirements of Section 3.4.2 in the WQMP Guidance Document).

☐ A site-specific analysis demonstrating the technical infeasibility of all LID BMPs has been performed and is included in Appendix 5. If you plan to submit an analysis demonstrating the technical infeasibility of LID BMPs, request a pre-submittal meeting with the Copermittee to discuss this option. Proceed to Section E to document your alternative compliance measures.

D.4 Feasibility Assessment Summaries

From the Infiltration, Harvest and Use, Bioretention and Biotreatment Sections above, complete Table D.2 below to summarize which LID BMPs are technically feasible, and which are not, based upon the established hierarchy.

Table D.2 LID Prioritization Summary Matrix

DMA Name/ID	LID BMP Hierarchy				No LID (Alternative Compliance)
	1. Infiltration	2. Harvest and use	3. Bioretention	4. Biotreatment	
DMA1 A/1	☐	☐	☒	☐	☐
DMA1 D/1	☐	☐	☒	☐	☐
DMA1 D/2	☐	☐	☒	☐	☐
DMA2 A/1	☐	☐	☒	☐	☐
DMA2 D/1	☐	☐	☒	☐	☐
DMA2 D/2	☐	☐	☒	☐	☐

D.5 LID BMP Sizing

Each LID BMP must be designed to ensure that the Design Capture Volume will be addressed by the selected BMPs. First**,** calculate the Design Capture Volume for each LID BMP using the V_{BMP} worksheet in Appendix F of the LID BMP Design Handbook. Second**,** design the LID BMP to meet the required V_{BMP} using a method approved by the Copermittee. Utilize the worksheets found in the LID BMP Design Handbook or consult with your Copermittee to assist you in correctly sizing your LID BMPs. Complete Table D.3 below to document the Design Capture Volume and the Proposed Volume for each LID BMP. Provide the completed design procedure sheets for each LID BMP in Appendix 6. You may add additional rows to the table below as needed.

Table D.3 DCV Calculations for LID BMPs

DMA Type/ID	DMA Area (square feet)	Post-Project Surface Type	Effective Impervious Fraction, I_f	DMA Runoff Factor	DMA Areas x Runoff Factor	*BIORETENTION 1*		
	[A]		[B]	[C]	[A] x [C]			
DMA1-A/1	*10939*	*Landscaping*	*0.1*	*0.11*	*1208.3*	*Design Storm Depth (in)*	*Design Capture Volume, V_{BMP} (cubic feet)*	*Proposed Volume on Plans (cubic feet)*
DMA1-D/1	*39571*	*Concrete or Asphalt*	*1*	*0.89*	*35297.3*			
DMA1-D/2	*4726*	*Roofs*	*1*	*0.89*	*4215.6*			
	55,236				40,721.2	0.80	2,714.7	2,898

[B], [C] is obtained as described in Section 2.3.1 of the WQMP Guidance Document

[E] is obtained from Exhibit A in the WQMP Guidance Document

[G] is obtained from a design procedure sheet, such as in LID BMP Design Handbook and placed in Appendix 6

Table D.4 DCV Calculations for LID BMPs

DMA Type/ID	DMA Area (square feet)	Post-Project Surface Type	Effective Impervious Fraction, I_f	DMA Runoff Factor	DMA Areas x Runoff Factor	*BIORETENTION 2 & 3*		
	[A]		[B]	[C]	[A] x [C]			
DMA2-A/1	*15488*	*Landscaping*	*0.1*	*0.11*	*1710.8*	*Design Storm Depth (in)*	*Design Capture Volume, V_{BMP} (cubic feet)*	*Proposed Volume on Plans (cubic feet)*
DMA2-D/1	*81783*	*Concrete or Asphalt*	*1*	*0.89*	*72950.4*			
DMA2-D/2	*10719*	*Roofs*	*1*	*0.89*	*9561.3*			
	107,990				84,222.5	0.80	5614.8	6,877

[B], [C] is obtained as described in Section 2.3.1 of the WQMP Guidance Document

[E] is obtained from Exhibit A in the WQMP Guidance Document

[G] is obtained from a design procedure sheet, such as in LID BMP Design Handbook and placed in Appendix 6

Section E: Alternative Compliance (LID Waiver Program)

LID BMPs are expected to be feasible on virtually all projects. Where LID BMPs have been demonstrated to be infeasible as documented in Section D, other Treatment Control BMPs must be used (subject to LID waiver approval by the Copermittee). Check one of the following Boxes:

X LID Principles and LID BMPs have been incorporated into the site design to fully address all Drainage Management Areas. No alternative compliance measures are required for this project and thus this Section is not required to be completed.

- *Or* -

☐ The following Drainage Management Areas are unable to be addressed using LID BMPs. A site-specific analysis demonstrating technical infeasibility of LID BMPs has been approved by the Co-Permittee and included in Appendix 5. Additionally, no downstream regional and/or sub-regional LID BMPs exist or are available for use by the project. The following alternative compliance measures on the following pages are being implemented to ensure that any pollutant loads expected to be discharged by not incorporating LID BMPs, are fully mitigated.

E.1 Identify Pollutants of Concern

Utilizing Table A.1 from Section A above which noted your project's receiving waters and their associated EPA approved 303(d) listed impairments, cross reference this information with that of your selected Priority Development Project Category in Table E.1 below. If the identified General Pollutant Categories are the same as those listed for your receiving waters, then these will be your Pollutants of Concern and the appropriate box or boxes will be checked on the last row. The purpose of this is to document compliance and to help you appropriately plan for mitigating your Pollutants of Concern in lieu of implementing LID BMPs.

Table E.1 Potential Pollutants by Land Use Type

Priority Development Project Categories and/or Project Features (check those that apply)	General Pollutant Categories							
	Bacterial Indicators	Metals	Nutrients	Pesticides	Toxic Organic Compounds	Sediments	Trash & Debris	Oil & Grease
☐ Detached Residential Development	P	N	P	P	N	P	P	P
☐ Attached Residential Development	P	N	P	P	N	P	P	P(2)
☒ Commercial/Industrial Development	P(3)	P	P(1)	P(1)	P(5)	P(1)	P	P
☐ Automotive Repair Shops	N	P	N	N	P(4, 5)	N	P	P
☐ Restaurants (>5,000 ft^2)	P	N	N	N	N	N	P	P
☐ Hillside Development (>5,000 ft^2)	P	N	P	P	N	P	P	P
☐ Parking Lots (>5,000 ft^2)	P(6)	P	P(1)	P(1)	P(4)	P(1)	P	P
☐ Retail Gasoline Outlets	N	P	N	N	P	N	P	P
Project Priority Pollutant(s) of Concern	☐	☐	☐	☐	☐	☐	☐	☐

P = Potential

N = Not Potential

(1) A potential Pollutant if non-native landscaping exists or is proposed onsite; otherwise not expected

(2) A potential Pollutant if the project includes uncovered parking areas; otherwise not expected

(3) A potential Pollutant is land use involving animal waste

(4) Specifically petroleum hydrocarbons

(5) Specifically solvents

(6) Bacterial indicators are routinely detected in pavement runoff

E.2 Stormwater Credits

Projects that cannot implement LID BMPs but nevertheless implement smart growth principles are potentially eligible for Stormwater Credits. Utilize Table 3-8 within the WQMP Guidance Document to identify your Project Category and its associated Water Quality Credit. If not applicable, write N/A.

Table E.2 Water Quality Credits

Qualifying Project Categories	Credit Percentage[2]
N/A	
Total Credit Percentage[1]	

[1] *Cannot Exceed 50%*
[2] *Obtain corresponding data from Table 3-8 in the WQMP Guidance Document*

E.3 Sizing Criteria

After you appropriately considered Stormwater Credits for your project, utilize Table E.3 below to appropriately size them to the DCV, or Design Flow Rate, as applicable. Please reference Chapter 3.5.2 of the WQMP Guidance Document for further information.

Table E.3 Treatment Control BMP Sizing

DMA Type/ID	**DMA Area (square feet)**	**Post-Project Surface Type**	**Effective Impervious Fraction, I_f**	**DMA Runoff Factor**	**DMA Area x Runoff Factor**		***Enter BMP Name / Identifier Here***		
	[A]		[B]	[C]	[A] x [C]				
N/A						*Design Storm Depth (in)*	*Minimum Design Capture Volume or Design Flow Rate (cubic feet or cfs)*	*Total Storm Water Credit % Reduction*	*Proposed Volume or Flow on Plans (cubic feet or cfs)*
	A_T = Σ[A]				Σ= [D]	[E]	$[F] = \frac{[D]x[E]}{[G]}$	[F] X (1-[H])	[I]

[B], [C] is obtained as described in Section 2.3.1 from the WQMP Guidance Document
[E] is for Flow-Based Treatment Control BMPs [E] = .2, for Volume-Based Control Treatment BMPs, [E] obtained from Exhibit A in the WQMP Guidance Document
[G] is for Flow-Based Treatment Control BMPs [G] = 43,560, for Volume-Based Control Treatment BMPs, [G] = 12
[H] is from the Total Credit Percentage as Calculated from Table E.2 above
[I] as obtained from a design procedure sheet from the BMP manufacturer and should be included in Appendix 6

E.4 Treatment Control BMP Selection

Treatment Control BMPs typically provide proprietary treatment mechanisms to treat potential pollutants in runoff, but do not sustain significant biological processes. Treatment Control BMPs must have a removal efficiency of a medium or high effectiveness as quantified below:

- **High**: equal to or greater than 80% removal efficiency
- **Medium**: between 40% and 80% removal efficiency

Such removal efficiency documentation (e.g., studies, reports, etc.) as further discussed in Chapter 3.5.2 of the WQMP Guidance Document, must be included in Appendix 6. In addition, ensure that proposed Treatment Control BMPs are properly identified on the WQMP Site Plan in Appendix 1.

Table E.4 Treatment Control BMP Selection

Selected Treatment Control BMP Name or ID[1]	Priority Pollutant(s) of Concern to Mitigate[2]	Removal Efficiency Percentage[3]
DMA1 A/1, D/1, D/2	Bacteria Indicators, Nutrients, Pesticides, Sediments, Trash & Debris, Oil & Grease	80%
DMA2 A/1, D/1, D/2	Bacteria Indicators, Nutrients, Pesticides, Sediments, Trash & Debris, Oil & Grease	80%

[1] *Treatment Control BMPs must not be constructed within Receiving Waters. In addition, a proposed Treatment Control BMP may be listed more than once if they possess more than one qualifying pollutant removal efficiency.*
[2] *Cross Reference Table E.1 above to populate this column.*
[3] *As documented in a Co-Permittee Approved Study and provided in Appendix 6.*

Section F: Hydromodification

F.1 Hydrologic Conditions of Concern (HCOC) Analysis

Once you have determined that the LID design is adequate to address water quality requirements, you will need to assess if the proposed LID Design may still create a HCOC. Review Chapters 2 and 3 (including Figure 3-7) of the WQMP Guidance Document to determine if your project must mitigate for Hydromodification impacts. If your project meets one of the following criteria which will be indicated by the check boxes below, you do not need to address Hydromodification at this time. However, if the project does not qualify for Exemptions 1, 2 or 3, then additional measures must be added to the design to comply with HCOC criteria. This is discussed in further detail below in Section F.2.

HCOC EXEMPTION 1: The Priority Development Project disturbs less than one acre. The Copermittee has the discretion to require a Project-Specific WQMP to address HCOCs on projects less than one acre on a case by case basis. The disturbed area calculation should include all disturbances associated with larger common plans of development.

Does the project qualify for this HCOC Exemption? ☐ Y ☒ N

If Yes, HCOC criteria do not apply.

HCOC EXEMPTION 2: The volume and time of concentration[1] of storm water runoff for the post-development condition is not significantly different from the pre-development condition for a 2-year return frequency storm (a difference of 5% or less is considered insignificant) using one of the following methods to calculate:

- Riverside County Hydrology Manual
- Technical Release 55 (TR-55): Urban Hydrology for Small Watersheds (NRCS 1986), or derivatives thereof, such as the Santa Barbara Urban Hydrograph Method
- Other methods acceptable to the Co-Permittee

Does the project qualify for this HCOC Exemption? ☐ Y ☒ N

If Yes, report results in Table F.1 below and provide your substantiated hydrologic analysis in Appendix 7.

Table F.1 Hydrologic Conditions of Concern Summary

	2 year – 24 hour		
	Pre-condition	**Post-condition**	**% Difference**
Time of Concentration			
Volume (Cubic Feet)			

[1] Time of concentration is defined as the time after the beginning of the rainfall when all portions of the drainage basin are contributing to flow at the outlet.

HCOC EXEMPTION 3: All downstream conveyance channels to an adequate sump (for example, Prado Dam, Lake Elsinore, Canyon Lake, Santa Ana River, or other lake, reservoir or naturally erosion resistant feature) that will receive runoff from the project are engineered and regularly maintained to ensure design flow capacity; no sensitive stream habitat areas will be adversely affected; or are not identified on the Co-Permittees Hydromodification Susceptibility Maps.

Does the project qualify for this HCOC Exemption? ☐ Y ☒ N

If Yes, HCOC criteria do not apply and note below which adequate sump applies to this HCOC qualifier:

F.2 HCOC Mitigation

If none of the above HCOC Exemption Criteria are applicable, HCOC criteria is considered mitigated if they meet one of the following conditions:

a. Additional LID BMPS are implemented onsite or offsite to mitigate potential erosion or habitat impacts as a result of HCOCs. This can be conducted by an evaluation of site-specific conditions utilizing accepted professional methodologies published by entities such as the California Stormwater Quality Association (CASQA), the Southern California Coastal Water Research Project (SCCRWP), or other Co-Permittee approved methodologies for site-specific HCOC analysis.

b. The project is developed consistent with an approved Watershed Action Plan that addresses HCOC in Receiving Waters.

c. Mimicking the pre-development hydrograph with the post-development hydrograph, for a 2-year return frequency storm. Generally, the hydrologic conditions of concern are not significant, if the post-development hydrograph is no more than 10% greater than pre-development hydrograph. In cases where excess volume cannot be infiltrated or captured and reused, discharge from the site must be limited to a flow rate no greater than 110% of the pre-development 2-year peak flow.

Be sure to include all pertinent documentation used in your analysis of the items a, b or c in Appendix 7.

Section G: Source Control BMPs

Source control BMPs include permanent, structural features that may be required in your project plans — such as roofs over and berms around trash and recycling areas — and Operational BMPs, such as regular sweeping and "housekeeping", that must be implemented by the site's occupant or user. The MEP standard typically requires both types of BMPs. In general, Operational BMPs cannot be substituted for a feasible and effective permanent BMP. Using the Pollutant Sources/Source Control Checklist in Appendix 8, review the following procedure to specify Source Control BMPs for your site:

1. ***Identify Pollutant Sources*:** Review Column 1 in the Pollutant Sources/Source Control Checklist. Check off the potential sources of Pollutants that apply to your site.

2. ***Note Locations on Project-Specific WQMP Exhibit*:** Note the corresponding requirements listed in Column 2 of the Pollutant Sources/Source Control Checklist. Show the location of each Pollutant source and each permanent Source Control BMP in your Project-Specific WQMP Exhibit located in Appendix 1.

3. ***Prepare a Table and Narrative*:** Check off the corresponding requirements listed in Column 3 in the Pollutant Sources/Source Control Checklist. In the left column of Table G.1 below, list each potential source of runoff Pollutants on your site (from those that you checked in the Pollutant Sources/Source Control Checklist). In the middle column, list the corresponding permanent, Structural Source Control BMPs (from Columns 2 and 3 of the Pollutant Sources/Source Control Checklist) used to prevent Pollutants from entering runoff. **Add additional narrative** in this column that explains any special features, materials or methods of construction that will be used to implement these permanent, Structural Source Control BMPs.

4. ***Identify Operational Source Control BMPs:*** To complete your table, refer once again to the Pollutant Sources/Source Control Checklist. List in the right column of your table the Operational BMPs that should be implemented as long as the anticipated activities continue at the site. Copermittee stormwater ordinances require that applicable Source Control BMPs be implemented; the same BMPs may also be required as a condition of a use permit or other revocable Discretionary Approval for use of the site.

Table G.1 Permanent and Operational Source Control Measures

Potential Sources of Runoff pollutants	Permanent Structural Source Control BMPs	Operational Source Control BMPs
Sidewalks and Parking Lot - bacteria, oils, trash and debris	Landscaped (Self Treating) Areas	Sweep sidewalks, parking lots regularly to prevent accumulation of litter and debris. Collect debris from pressure washing to prevent entry into the storm drain system. Collect washwater containing any cleaning agent or degreaser and discharge to the sanitary sewer not to a storm drain.

Landscape - Nutrients and Pesticide	Landscaped (Self Treating) Areas	Evaluate and remove any dead or diseased vegetation twice a year. Prune, weed, and replace mulch as necessary.

Section H: Construction Plan Checklist

Populate Table H.1 below to assist the plan checker in an expeditious review of your project. The first two columns will contain information that was prepared in previous steps, while the last column will be populated with the corresponding plan sheets. This table is to be completed with the submittal of your final Project-Specific WQMP.

Table H.1 Construction Plan Cross-reference

BMP No. or ID	BMP Identifier and Description	Corresponding Plan Sheet(s)	BMP Location (Lat/Long)
1	Bioretention	WQMP Site Plan	33.993686, -117.060409
2	Bioretention	WQMP Site Plan	33.993686, -117.060409
3	Bioretention	WQMP Site Plan	33.993686, -117.060409

Note that the updated table — or Construction Plan WQMP Checklist — is **only a reference tool** to facilitate an easy comparison of the construction plans to your Project-Specific WQMP. Co-Permittee staff can advise you regarding the process required to propose changes to the approved Project-Specific WQMP.

Section I: Operation, Maintenance and Funding

The Copermittee will periodically verify that Stormwater BMPs on your site are maintained and continue to operate as designed. To make this possible, your Copermittee will require that you include in Appendix 9 of this Project-Specific WQMP:

1. A means to finance and implement facility maintenance in perpetuity, including replacement cost.
2. Acceptance of responsibility for maintenance from the time the BMPs are constructed until responsibility for operation and maintenance is legally transferred. A warranty covering a period following construction may also be required.
3. An outline of general maintenance requirements for the Stormwater BMPs you have selected.
4. Figures delineating and designating pervious and impervious areas, location, and type of Stormwater BMP, and tables of pervious and impervious areas served by each facility. Geo-locating the BMPs using a coordinate system of latitude and longitude is recommended to help facilitate a future statewide database system.
5. A separate list and location of self-retaining areas or areas addressed by LID Principles that do not require specialized O&M or inspections but will require typical landscape maintenance as noted in Chapter 5, pages 85-86, in the WQMP Guidance. Include a brief description of typical landscape maintenance for these areas.

Your local Co-Permittee will also require that you prepare and submit a detailed Stormwater BMP Operation and Maintenance Plan that sets forth a maintenance schedule for each of the Stormwater BMPs built on your site. An agreement assigning responsibility for maintenance and providing for inspections and certification may also be required.

Details of these requirements and instructions for preparing a Stormwater BMP Operation and Maintenance Plan are in Chapter 5 of the WQMP Guidance Document.

Maintenance Mechanism:

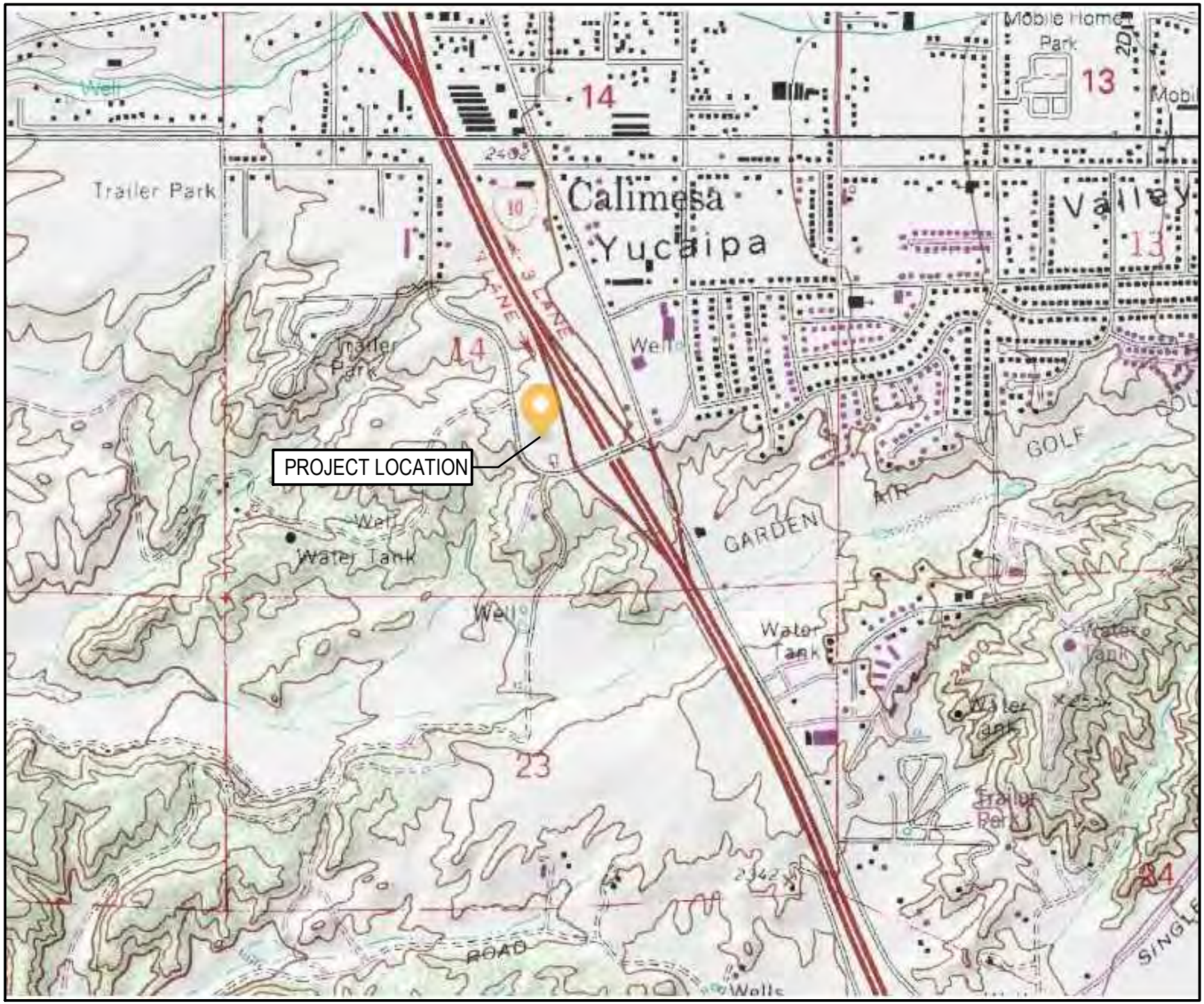
Will the proposed BMPs be maintained by a Home Owners' Association (HOA) or Property Owners Association (POA)?

☒ Y ☐ N

Include your Operation and Maintenance Plan and Maintenance Mechanism in Appendix 9. Additionally, include all pertinent forms of educational materials for those personnel that will be maintaining the proposed BMPs within this Project-Specific WQMP in Appendix 10.

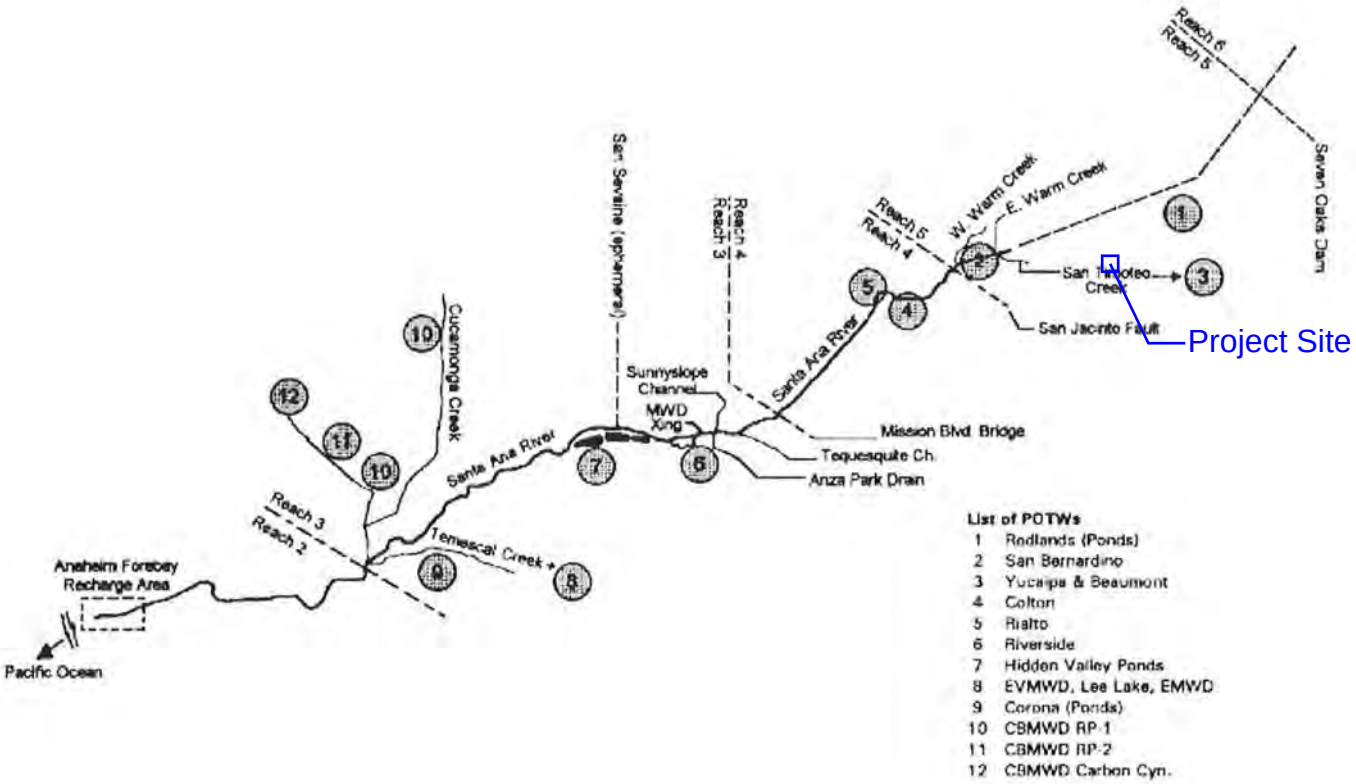
Appendix 1: Maps and Site Plans

Location Map, WQMP Site Plan and Receiving Waters Map



LOCATION MAP

FIGURE 1-2
SANTA ANA RIVER AND TRIBUTARIES



FROM SANTA ANA BASIN PLAN

Maps and map data are provided "as-is" and are not legal surveys or legal descriptions. Riverside County Flood Control and Water Conservation District explicitly disclaims any representations and warranties as to the accuracy, timeliness, or completeness of maps and data. These maps and data are created from multiple city, county, state and federal sources. The source data may contain errors. These maps and data should not be used for navigational, tracking, or any other purpose requiring exacting measurement of distance or direction. In no event will Riverside County Flood Control and Water Conservation District or employees be liable for any losses or damages that might arise from the use of the maps and data.

NPDES MUNICIPAL PERMIT
SANTA ANA RIVER WATERSHED
EXHIBIT SA-4
(MORENO VALLEY, PERRIS, CALIMESA, BEAUMONT, SAN JACINTO AREAS)

- CITY MS4 FACILITIES
- COUNTY MS4 FACILITIES
- RCFC&WCD MS4 FACILITIES
- OTHER FACILITIES
- MAJOR OUTFALL SITES
- SAR CORE MONITORING STATIONS
- SANTA ANA RIVER WATERSHED BOUNDARY
- LANDFILL SITES
- SEWAGE TREATMENT PLANTS
- SANTA ANA RIVER/SAN JACINTO RIVER
- BLUE LINE STREAMS
- RIVERSIDE COUNTY BOUNDARY
- INCORPORATED AREAS
- FREEWAYS/HIGHWAYS
- PRIMARY STREETS

N

0 0.5 1 1.5 2 MILES

UPDATED NOVEMBER 2020

SAN BERNARDINO COUNTY
RIVERSIDE COUNTY

PROJECT LOCATION

CALIMESA

BEAUMONT

BANNI

MORENO VALLEY

PERRIS

SAN JACINTO

SA-1 SA-2 SA-3 SA-4 SA-5

ORANGE COUNTY

SAN BERNARDINO COUNTY

R 07 W | R 06 W | R 05 W | R 04 W | R 03 W | R 02 W | R 01 W | R 01 E | R 02 E | R 03 E | R 04 E | R 05 E

T 01 S
T 02 S
T 03 S
T 04 S
T 05 S
T 06 S
T 07 S
T 08 S

PROJECT LOCATION

0.85 MiraLoma
0.61 Riverside North
0.54 Riverside South
0.68 PigeonPass
0.66 MorenoEast
0.85 Beaumont
0.88 PradoDam
0.51 Woodcrest
0.50 LakeMathews
0.68 PerrisReservoir
0.87 VistaGrandeGS
0.70 SanJacintoNWS
1.18 Idyllwild
0.58 SunCity
0.68 Winchester
0.70 ElsinoreNWS
1.11 ElCarisoStation
0.90 HurkeyCreek
0.77 WildomarLaCresta
0.52 SkinnerLake
0.65 Anza
0.77 SantaRosaPlateau
1.00 TemeculaNWS
0.64 AguangaValley

Santa Ana River Watershed
Santa Margarita Watershed

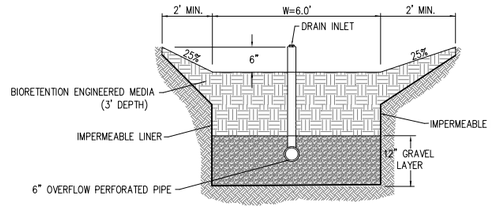
JURUPA VALLEY | EASTVALE | NORCO | CORONA | RIVERSIDE | MORENO VALLEY | CALIMESA | BEAUMONT | SAN JACINTO | PERRIS | HEMET | CANYON LAKE | LAKE ELSINORE | MENIFEE | WILDOMAR | MURRIETA | TEMECULA

Rain Gage Locations

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

Isohyetal Map for the 85th Percentile 24 hour Storm Event

July 2011



TYPICAL BIORETENTION SECTION
N.T.S.

INTERSTATE-10 FREEWAY OFF-RAMP (SOUTH-BOUND)

(P)BUILDING
7,700 SF
390.66FF
389.66PAD

DMA A-1
55,236 sf

DMA A-2
107,990 sf

BIORETENTION 1

BIORETENTION 2

BIORETENTION 3

(P)BIORETENTION BASIN

(P)MENU

NO PARKING

(P)STRIPING

(P)LIGHT POLE(TYP)

(P)6"CURB

(P)6"CURB & GUTTER

(P)RIBBON GUTTER

(P)TRASH ENCLOSURE

(P)TRASH RECEPTACLE

(P)DRIVE-THRU SIGN

(P)AIR & WATER UNIT

(P)LANDSCAPE

(P)RETAINING WALL

(P)12" CONCRETE STEP OUT(TYP)

(P)UNDERGROUND STORAGE TANKS

(P)COLUMN(TYP)

(P)CONCRETE

(P)BOLLARDS(TYP)

(P)TRANSFORMER

(P)MONUMENT SIGN

(P)RIP-RAP(TYP)

(P)SIGN

(P)CONCRETE SIDEWALK

(P)24"CURB OPENING(TYP)

(E)POWER POLE REMOVE & UNDERGROUND

(E)SS MH (387.76RIM)

(E)SS MH (388.65RIM)

(E)SEWER POLE REMOVE & UNDERGROUND

(E)CURB

(E)TELEPHONE BOX

(E)BOLLARDS

C/L 7th STREET

S 15°47'42" E 178.14'

S 47°26'24" E 170.56'

Δ=1°53'01"
R=14.35'
L=297.63'

LOCATION	IMPERVIOUS (sf)	PERVIOUS (sf)	DESCRIPTION	DCV (CF)	DESIGN BMP
DMA A-1	0	10,939	LANDSCAPED	2,715	BIORETENTION 1 AREA REQUIRED = 1,613 SF AREA DESIGN = 1,660 SF
	39,571	0	CONC/AC PAVEMENT		
	4,726	0	ROOFS		
DMA A-2	0	15,488	LANDSCAPED	5,615	BIORETENTION 2 & 3 AREA REQUIRED = 3,120 SF AREA DESIGN = 3,821 SF
	81,783	0	CONC/AC PAVEMENT		
	10,719	0	ROOFS		
TOTAL	136,799	26,427			

REVISIONS:

BY	DESCRIPTION	DATE

APN: 411-210-025
JACK IN THE BOX

CIVIL ENGINEER:

REGISTERED PROFESSIONAL ENGINEER
GIL ZULUETA MENDOZA
No. 53454
CIVIL
Exp. June 30, 2021
STATE OF CALIFORNIA

Gil Zulueta Mendoza Associates, Inc.
6185 MAGNOLIA AVENUE, #129
RIVERSIDE, CA 92506
PH: 951.425.8582 FAX: 951.360.1810
E-MAIL: gil@gzmassociates.com

GIL Z. MENDOZA, R.C.E. 053454 DATE

PROJECT:

PRELIMINARY WQMP SITE PLAN
EAST SIDE OF 7th STREET AND NORTH OF SANDALWOOD DRIVE
CALIMESA, CA 92320

Owner: SANDALWOOD TRAVEL CENTER, LP
PO BOX 1958
CORONA, CA 92878

Drawn	SP
Checked	GZM
Engineer	GZM
File	2323-0200
Date	02/26/21
Scale	AS NOTED

Job No.
2323-0200

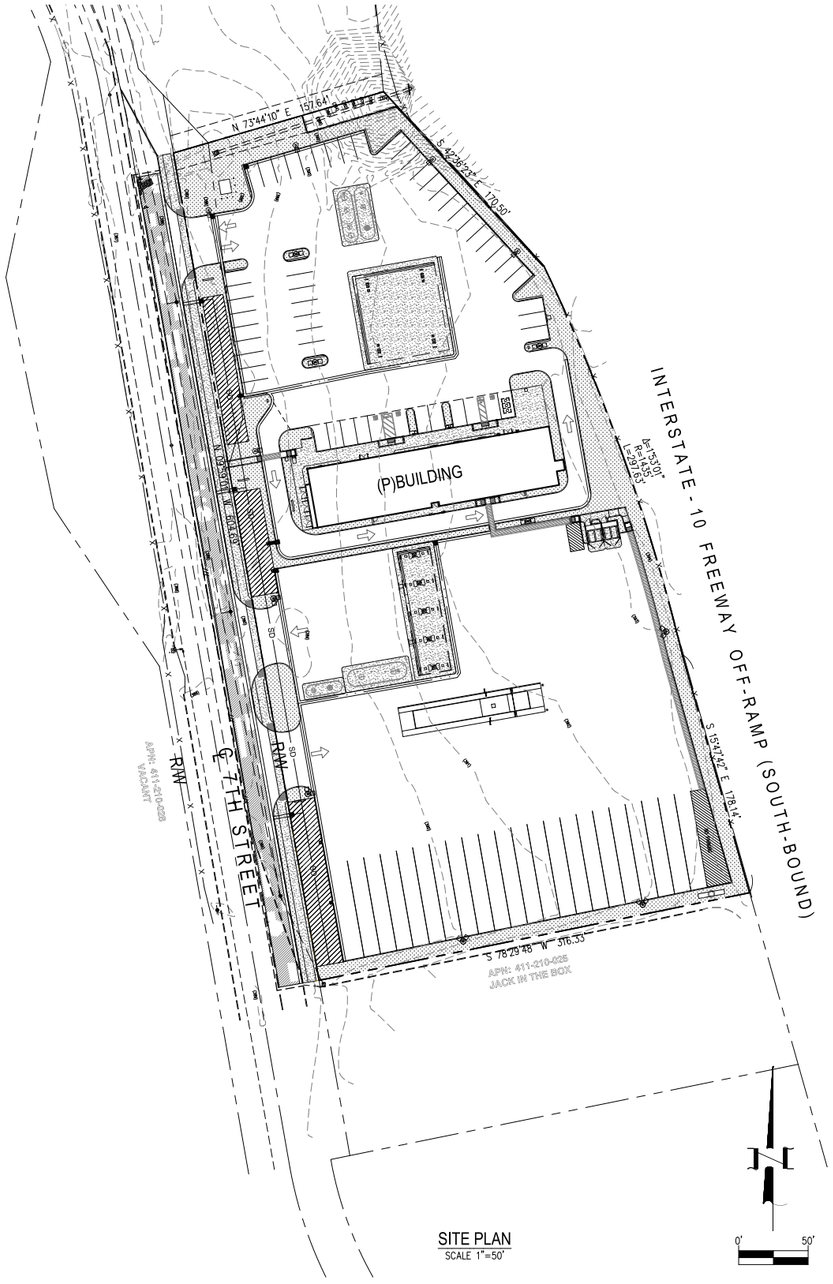
Sheet No.
1 OF 1

FILENAME: Z:\Projects\2323\0200\Ref\Alvin\022221 PWQMP Site Plan & Report\PWQMP-Site Plan.dwg PLOTTED ON: Feb 26, 2021 - 3:35pm BY: dsanchez

Appendix 2: Construction Plans

Grading and Drainage Plans

PRELIMINARY GRADING PLAN
for
SANDALWOOD CALIMESA
at
East of 7th Street and North of Sandalwood Drive
Calimesa, CA 92320



SITE PLAN
SCALE 1"=50'

LEGAL DESCRIPTION

THAT PORTION OF THE SOUTH HALF OF SECTION 14, TOWNSHIP 2 SOUTH, RANGE 2 WEST, SAN BERNARDINO BASE AND MERIDIAN, IN THE CITY OF CALIMESA, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, ACCORDING TO THE OFFICIAL PLAT THEREOF, DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF THE SOUTH LINE OF SAID SECTION WITH THE WESTERLY LINE OF THAT PORTION CONVEYED TO THE STATE OF CALIFORNIA BY DEED RECORDED JUNE 10, 1963 AS INSTRUMENT NO. 59895 IN BOOK 3414 PAGE(S) 486 OF OFFICIAL RECORDS OF RIVERSIDE COUNTY, CALIFORNIA, SAID POINT OF BEGINNING LIES SOUTH 89° 15' 19" WEST 1,385.35 FEET FROM THE SOUTHEAST CORNER OF SAID SECTION 14; THENCE ALONG THE WESTERLY RIGHT OF WAY LINE OF SAID PORTION CONVEYED TO THE STATE OF CALIFORNIA, THE FOLLOWING COURSES AND DISTANCES, NORTH 29° 04' 14" WEST 296.82 FEET; THENCE NORTH 38° 52' 15" WEST 242.20 FEET; THENCE NORTH 45° 49' 52" WEST 334.86 FEET; THENCE NORTH 43° 11' 46" WEST 426.44 FEET; THENCE NORTH 65° 42' 27" WEST 39.51 FEET; THENCE SOUTH 68° 03' 00" WEST 10.00 FEET TO THE BEGINNING OF A CURVE IN THE SOUTH LINE OF SANDALWOOD DRIVE AS CONVEYED TO THE STATE OF CALIFORNIA BY SAID INSTRUMENT NO. 59895; THENCE NORTH 21° 57' 00" WEST 60.00 FEET TO THE BEGINNING OF A CURVE ON THE NORTHERLY LINE OF SAID SANDALWOOD DRIVE, SAID CURVE BEING CONCAVE TO THE NORTH AND HAVING A RADIUS OF 270.00 FEET AND WHOSE INITIAL TANGENT BEARS SOUTH 68° 03' 00" WEST; THENCE NORTHWESTERLY ALONG SAID CURVE 480.51 FEET AND THROUGH A CENTRAL ANGLE OF 101° 57' 59" TO THE TRUE POINT OF BEGINNING; THENCE CONTINUING ON SAID NORTHERLY LINE OF THE FOLLOWING BEARINGS AND DISTANCES:

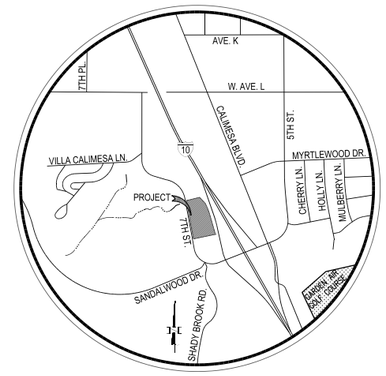
NORTH 09° 59' 01" WEST 476.10 FEET; THENCE NORTH 16° 34' 51" EAST 67.08 FEET; THENCE NORTH 07° 07' 17" WEST, 200.25 FEET; THENCE NORTH 43° 19' 00" WEST 73.32 FEET ON SAID NORTHERLY LINE TO THE BEGINNING OF A NON-TANGENT CURVE THEREIN, CONCAVE SOUTHWESTERLY HAVING A RADIUS OF 330.00 FEET, A DISTANCE RADIAL TO SAID BEGINNING BEARS NORTH 77° 36' 14" EAST; THENCE NORTHERLY 365.51 FEET ON SAID CURVE AND NORTHERLY LINE THROUGH A CENTRAL ANGLE OF 61° 53' 55; THENCE NORTH 74° 17' 41" WEST 209.55 FEET ON SAID NORTHERLY LINE TO THE BEGINNING OF A CURVE CONCAVE NORTHEASTERLY HAVING A RADIUS OF 270.00 FEET; THENCE NORTHERLY 221.72 FEET ON LAST SAID CURVE AND NORTHERLY LINE THROUGH A CENTRAL ANGLE OF 47° 02' 58" THENCE NORTH 47° 02' 50" EAST 73.75 FEET; THENCE NORTH 37° 11' 08" WEST 109.28 FEET TO THE NORTH LINE OF THE SOUTH HALF OF SAID SECTION 14; THENCE NORTH 87° 37' 00" EAST ON SAID NORTH LINE TO AN ANGLE POINT IN THE NORTHERLY LINE OF SAID LAND CONVEYED TO THE STATE OF CALIFORNIA, SAID ANGLE POINT BEARS SOUTH 87° 37' 00" WEST 255.54 FEET ON SAID NORTH LINE THE SOUTH HALF OF SECTION 14 FROM THE NORTHWEST CORNER OF THE SOUTHEAST QUARTER THEREOF; THENCE, ON SAID NORTHERLY LINE, THE FOLLOWING BEARINGS AND DISTANCES: SOUTH 28° 02' 00" EAST 334.44 FEET; THENCE SOUTH 25° 22' 33" EAST 200.64 FEET; THENCE SOUTH 05° 30' 45" EAST 104.19 FEET; THENCE SOUTH 42° 36' 23" EAST 170.50 FEET, TO THE BEGINNING OF A NON-TANGENT CURVE, CONCAVE WESTERLY, HAVING A RADIUS OF 1,435.00 FEET, A RADIAL TO SAID BEGINNING BEARS NORTH 64° 26' 49" EAST; THENCE SOUTHERLY 297.63 FEET ON LAST SAID CURVE AND NORTHERLY LINE THROUGH A CENTRAL ANGLE OF 11° 53' 01"; THENCE SOUTH 15° 47' 42" EAST 306.50 FEET ON SAID NORTHERLY LINE TO A POINT THEREON, SAID POINT BEARS NORTH 78° 29' 45" EAST 343.37 FEET FROM THE TRUE POINT OF BEGINNING; THENCE, LEAVING SAID NORTHERLY LINE SOUTH 78° 29' 45" WEST 343.37 FEET TO THE TRUE POINT OF BEGINNING;

EXCEPTING THEREFROM THAT PORTION AS CONVEYED TO THE COUNTY OF RIVERSIDE IN DOCUMENT RECORDED MARCH 6, 1980 AS INSTRUMENT NO. 44136 OF OFFICIAL RECORDS OF RIVERSIDE COUNTY, CALIFORNIA.

ALSO EXCEPTING THAT PORTION LYING WITHIN PARCEL 1 PARCEL MAP NO. 29252, IN THE CITY OF CALIMESA, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, AS SHOWN BY MAP ON FILE IN BOOK 196, PAGES 48 THROUGH 50, INCLUSIVE OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

ALSO EXCEPTING FROM SAID PROPERTY A 49% INTEREST IN AND TO ALL OIL, GAS AND MINERAL RIGHTS LOCATED ON THE HEREIN DESCRIBED PROPERTY AS RESERVED IN DEED FROM ROBERT B. STUART AND LAURA JEAN STUART, HUSBAND AND WIFE, TO HENRETTA RANDALL, A WIDOW, RECORDED JUNE 2, 1953 IN BOOK 1477 PAGE 495 OFFICIAL RECORDS OF RIVERSIDE COUNTY, CALIFORNIA AND RE-RECORDED JUNE 10, 1953 AS INSTRUMENT NO. 28346, IN BOOK 1480 PAGE 406 OFFICIAL RECORDS OF RIVERSIDE COUNTY, CALIFORNIA.

FOR CONVEYANCING PURPOSES ONLY: APN 411-210-024 (AFFECTS PORTION OF LAND) AND 411-210-006 (AFFECTS PORTION OF LAND)



VICINITY MAP
NTS

OWNER:

SANDALWOOD TRAVEL CENTER, LP
PO BOX 1958
CORONA, CA 92878
P 951.280.3833
EMAIL: sandalwood@jntmgmt.com

SITE INFORMATION:

RIVERSIDE COUNTY A.P.N.: 411-210-024
SITE ACREAGE: 3.79 AC, 165,063 SF
DISTURBED AREA: 3.79 AC, 165,063 SF
IMPERVIOUS AREA: 137,410 SF

EARTHWORK:

CUT: 5,770 CY
FILL: 954 CY
EXPORT: 4,816 CY

FEMA FLOOD CONTROL

MAP NUMBER: 06065C0785G
DATE: 08.28.2008
FLOOD ZONE: X
AREAS NOT LOCATED IN A SPECIAL FLOOD HAZARD ZONE

LEGEND

CATV CATV	CENTER LINE
935 (935)	(E) CABLE TV LINE
935 (935)	(P) CONTOUR
CONCRETE SYMBOL	(E) CONTOUR
	CONCRETE SYMBOL
	(P) CMU WALL
	(E) CMU WALL
	(E) FENCE
FH	(E) FIRE HYDRANT
G G	(E) GAS LINE
PP	(E) POWER POLE
	PROPERTY LINE
	RIGHT OF WAY
S S	(E) SEWER LINE
990.10	SPOT ELEVATION
SD SD	(E) STORM DRAIN
W W	(E) WATER MAIN
WM	WATER METER
WV	WATER VALVE

UTILITY PROVIDERS:

1. CITY OF CALIMESA.....CONTACT: MARGARET MONSON
908 PARK AVE. P 909.795.9801
CALIMESA CA 92320 EMAIL: PWORKS@CITYOFCALIMESA.NET
2. SOCAL GAS BEAUMONT.....CONTACT: LEE CHRISTENSEN
60 E. RAMSEY ST. A P 909.335.3946
BANNING, CA 92220 EMAIL: LMCHRISTENSEN@SOCALGAS.COM
3. S.C.E.....CONTACT: GILBERT ACEVES
14005 S. BENSON AVE. P 909.548.7249
CHINO, CA 91710 EMAIL: GILBERT.ACEVES@SCE.COM
4. FRONTIER.....CONTACT: BIN LIANG
32477 HAUN RD. P 951.723.0736
MENIFEE, CA 92584 EMAIL: BIN.LIANG@FTR.COM
5. YUCAIPA VALLEY WATER DISTRICT..... CONTACT: JOHN HULL
12770 2ND ST. P 909.797.5117
YUCAIPA, CA 92399

ABBREVIATIONS

℄	CENTERLINE
CMU	CONCRETE MASONRY UNIT
DWY	DRIVEWAY
E	EXISTING
FL	FLOW LINE
FF	FINISH FLOOR
FG	FINISH GRADE
FS	FINISH SURFACE
GFF	GARAGE FINISH FLOOR
INV	INVERT
NG	NATURAL GROUND
P	PROPOSED
PCC	PORTLAND CEMENT CONCRETE
SF	SQUARE FEET
TC	TOP OF CURB
TF	TOP OF FOOTING
TG	TOP OF GRATE

BENCHMARK

BM: C 38
STAMPED: C 38 1924
NAVD 88 ELEVATION: 2410.79'
ADD 2000' TO ALL ELEVATIONS SHOWN ON ALL SHEETS.

SHEET INDEX

No.	DESCRIPTION
1	TITLE SHEET
2	PRELIMINARY GRADING PLAN
3	CROSS-SECTIONS

Underground Service Alert
CALL TOLL FREE
DIAL
811
TWO WORKING DAYS BEFORE YOU DIG

REVISIONS:

BY	DESCRIPTION	DATE

CIVIL ENGINEER:

Gil Zulueta Mendoza Associates, Inc.
290 CORPORATE TERRACE CIRCLE, SUITE 101
CORONA, CA 92879 P. 815.425.8582
CONTACT: GIL MENDOZA, P.E. 951.268.6570
E-MAIL: gil@gzmassociates.com

REGISTERED PROFESSIONAL ENGINEER
GIL ZULUETA MENDOZA
No. 53454
CIVIL
June 30, 2021
STATE OF CALIFORNIA

Gil. Z. MENDOZA, R.C.E. 053454 DATE

PROJECT:

TITLE SHEET
EAST SIDE OF 7th STREET AND NORTH OF SANDALWOOD DRIVE
CALIMESA, CA 92320
Owner: SANDALWOOD TRAVEL CENTER, LP
PO BOX 1958
CORONA, CA 92878

Drawn	DIS
Checked	GZM
Engineer	GZM
File	2323-0200
Date	02/26/21
Scale	AS NOTED

Job No.
2323-0200
Sheet No.
1 OF 3

FILENAME: Z:\Projects\2323\0200\Dwg\Xref\232302 TB.dwg PLOTTED ON: Feb 26, 2021 - 3:44pm BY: dsanchez

INTERSTATE-10 FREEWAY OFF-RAMP (SOUTH-BOUND)

(P)BUILDING
7,700 SF
390.66FF
389.66PAD

(P)AC PAVEMENT

(P)CONCRETE

(P)LANDSCAPE

(P)TRASH ENCLOSURE

(P)TRASH RECEPTACLE

(P)MENU

(P)AIR & WATER UNIT

(P)UNDERGROUND STORAGE TANKS

(P)CAT SCALE
104'

(P)DRIVE-THRU SIGN

(P)MONUMENT SIGN

(P)BIORETENTION BASIN

(P)RETAINING WALL

(P)RIP-RAP(TYP)

(P)CONCRETE SIDEWALK

(P)STRIPING(TYP)

(P)LIGHT POLE(TYP)

(P)BOLLARDS(TYP)

(P)TRANSFORMER

(P)RIBBON GUTTER

(P)6"CURB

(P)6"CURB & GUTTER

(P)12" CONCRETE STEP OUT(TYP)

(P)24"CURB OPENING(TYP)

(P)COLUMN(TYP)

(E)CHAINLINK FENCE

(E)SIGN

(E)CONCR DITCH

(E)POWER POLE REMOVE & UNDERGROUND

(E)OVERHEAD LINES

(E)TELEPHONE

(E)EDGE OF PAVEMENT

(E)SEWER

(E)WATER

(E)AC BERM

(E)FIRE HYDRANT

(E)MH

(E)PP

(E)CURB

(E)BOLLARDS

(E)SD INLET

(E)LIGHT POLE

(E)MONUMENT SIGN

(E)POWER POLE

NO PARKING

DRAINAGE EASEMENT

10' TYP

19' TYP

26' DRAINAGE EASEMENT

72'

29.5'

19'

11'

14'

5'

3'

2'

69'

88'

841'

30'

21'

70' TYP

15' TYP

40'

35'

18.5'

20'

24'

17'

12'

Δ=1°53'01"
R=14.35'
L=297.63'

S 15°47'42" E 178.14'

S 42°36'23" E 170.50'

N 73°44'10" E 157.64'

N 09°59'01" W 604.69'

S 78°29'48" W 316.33'

C 7th STREET

R/W

APN: 411-210-028
VACANT

SCALE 1"=20'
20' 10' 0' 20' 40' 60'

Underground Service Alert
CALL TOLL FREE
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811
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REVISIONS:

BY	DESCRIPTION	DATE

APN: 411-210-025
JACK IN THE BOX

REGISTERED PROFESSIONAL ENGINEER
GIL ZULUETA MENDOZA
No. 53454
CIVIL
June 30, 2021
STATE OF CALIFORNIA

CIVIL ENGINEER:

Gil Zulueta Mendoza Associates, Inc.
290 CORPORATE TERRACE CIRCLE, SUITE 101
CORONA, CA 92879
PH: 951.808.8577 FX: 815.425.8582
E-MAIL: gil@gzmassociates.com

GIL Z. MENDOZA, R.C.E. 053454 DATE

PROJECT:

PRELIMINARY GRADING PLAN
EAST SIDE OF 7th STREET AND NORTH OF SANDALWOOD DRIVE
CALIMESA, CA 92320

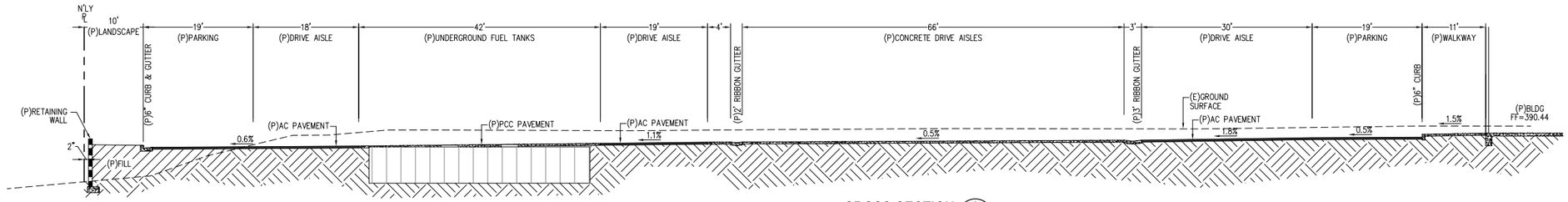
Owner: SANDALWOOD TRAVEL CENTER, LP
PO BOX 1958
CORONA, CA 92878

Drawn	DIS
Checked	GZM
Engineer	GZM
File	2323-0200
Date	02/26/21
Scale	AS NOTED

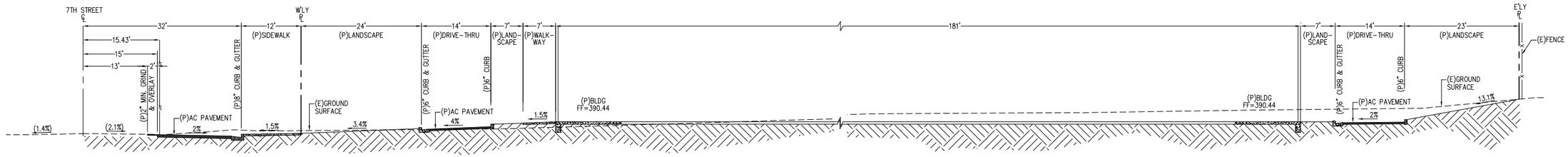
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2323-0200

Sheet No.
2 OF 3

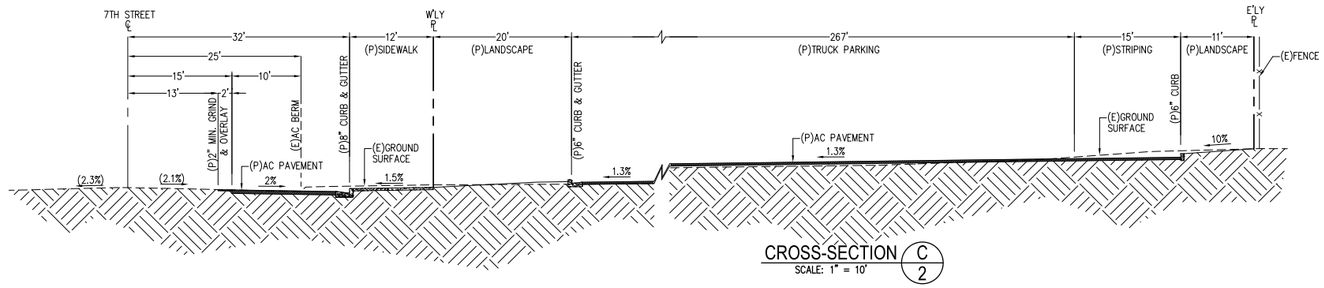
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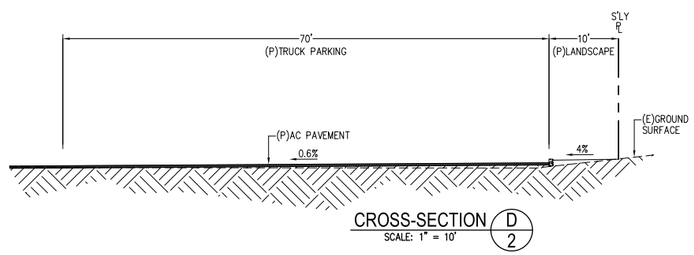
CROSS-SECTION A
SCALE: 1" = 10'
2



CROSS-SECTION B
SCALE: 1" = 10'
2



CROSS-SECTION C
SCALE: 1" = 10'
2



CROSS-SECTION D
SCALE: 1" = 10'
2

REVISIONS:

BY	DESCRIPTION	DATE

CIVIL ENGINEER:

Gil Zulueta Mendoza Associates, Inc.
290 CORPORATE TERRACE CIRCLE, SUITE 101
CORONA, CA 92879
P: 951.280.9500 F: 815.425.8582
E-MAIL: gil@gzmassociates.com
GIL Z. MENDOZA, R.C.E. C63454 DATE

REGISTERED PROFESSIONAL ENGINEER
GIL ZULUETA MENDOZA
No. 63454
Expires
June 30, 2021
CIVIL
STATE OF CALIFORNIA

PROJECT:

CROSS-SECTIONS
EAST SIDE OF 7th STREET AND NORTH OF SANDALWOOD DRIVE
CALIMESA, CA 92320

Owner: SANDALWOOD TRAVEL CENTER, LP
PO BOX 1958
CORONA, CA 92878

Drawn	DIS
Checked	GZM
Engineer	GZM
File	2323-0200
Date	02/26/21
Scale	AS NOTED

Job No.
2323-0200

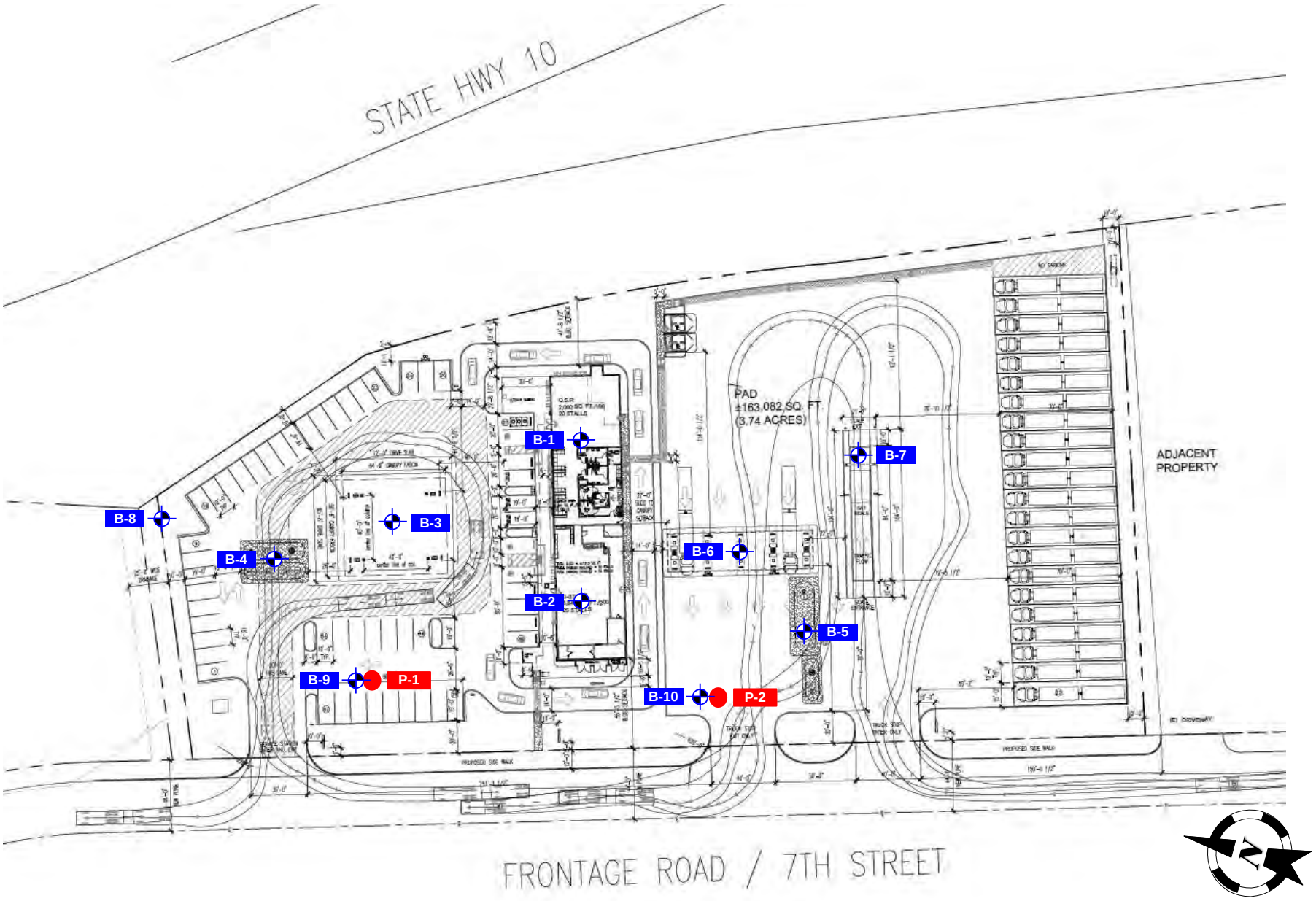
Sheet No.
3 OF 3

Underground Service Alert
CALL TOLL FREE
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811
TWO WORKING DAYS BEFORE YOU DIG

FILENAME: Z:\Projects\2323\0200\Dwg\Xref\232302 TB.dwg PLOTTED ON: Feb 26, 2021 - 3:06pm BY: dsanchez

Appendix 3: Soils Information

Geotechnical Study and Other Infiltration Testing Data



SITE PLAN

GEOTECHNICAL ENGINEERING INVESTIGATION
Proposed Fueling Station
Sandalwood Drive & 7th Street
Calimesa, California

SCALE:	DATE:
NOT TO SCALE	02/2021
DRAWN BY:	APPROVED BY:
JC	CJ
PROJECT NO.	FIGURE NO.
3-221-0096	2

LEGEND:

B-1 Soil Boring Locations
P-1 Percolation Locations

All Locations Approximate

SALEM engineering group, inc.

Percolation Test Worksheet

Project: **Proposed Fueling Station**
Sandalwood Drive & 7th Street
Calimesa, CA

Job No.: **3-221-0096**
Date Drilled: **2/9/2021**
Soil Classification: **Silty SAND**

Hole Radius: 4 in.
Pipe Dia.: 3 in.
Total Depth of Hole: 96 in.

Test Hole No.: **P-1**
Tested by: **JC**
Drilled Hole Depth: **8.0** ft.

Presoaking Date: **2/9/2021**
Test Date: **2/10/2021**

Pipe Stick up: 1.4 ft.

Time Start	Time Finish	Depth of Test Hole (ft)#	Refill- Yes or No	Elapsed Time (hrs:min)	Initial Water Level# (ft)	Final Water Level# (ft)	Δ Water Level (in.)	Δ Min.	Meas. Perc Rate (min/in)	Initial Height of Water (in)	Final Height of Water (in)	Average Height of Water (in)	Infiltration Rate, It (in/hr)
7:00	7:30	9.4	**Y**	0:30	5.15	6.18	12.36	30	2.4	51.0	38.6	44.8	1.06
7:30	8:00	9.4	N	0:30	6.18	6.93	9.00	30	3.3	38.6	29.6	34.1	1.00
8:00	8:30	9.4	N	0:30	6.93	7.50	6.84	30	4.4	29.6	22.8	26.2	0.97
8:30	9:00	9.4	N	0:30	7.50	7.94	5.28	30	5.7	22.8	17.5	20.2	0.95
9:00	9:30	9.4	N	0:30	7.94	8.28	4.08	30	7.4	17.5	13.4	15.5	0.93
9:30	10:00	9.4	N	0:30	8.28	8.55	3.24	30	9.3	13.4	10.2	11.8	0.94
10:02	10:32	9.4	**Y**	0:30	5.20	6.10	10.80	30	2.8	50.4	39.6	45.0	0.92
10:32	11:02	9.4	N	0:30	6.10	6.82	8.64	30	3.5	39.6	31.0	35.3	0.93
11:02	11:32	9.4	N	0:30	6.82	7.40	6.96	30	4.3	31.0	24.0	27.5	0.94
11:32	12:02	9.4	N	0:30	7.40	7.85	5.40	30	5.6	24.0	18.6	21.3	0.93
12:02	12:32	9.4	N	0:30	7.85	8.20	4.20	30	7.1	18.6	14.4	16.5	0.91
12:32	13:02	9.4	N	0:30	8.20	8.48	3.36	30	8.9	14.4	11.0	12.7	0.91
Recommended for Design:										**Infiltration Rate**			**0.91**

SALEM engineering group, inc.

Percolation Test Worksheet

Project: **Proposed Fueling Station**
Sandalwood Drive & 7th Street
Calimesa, CA

Job No.: **3-221-0096**
Date Drilled: **2/9/2021**
Soil Classification: **Clayey SAND**

Hole Radius: 4 in.
Pipe Dia.: 3 in.
Total Depth of Hole: 84 in.

Test Hole No.: **P-2**
Tested by: **JC**
Drilled Hole Depth: **7.0** ft.

Presoaking Date: **2/9/2021**
Test Date: **2/10/2021**

Pipe Stick up: 1.8 ft.

Time Start	Time Finish	Depth of Test Hole (ft)#	Refill- Yes or No	Elapsed Time (hrs:min)	Initial Water Level# (ft)	Final Water Level# (ft)	Δ Water Level (in.)	Δ Min.	Meas. Perc Rate (min/in)	Initial Height of Water (in)	Final Height of Water (in)	Average Height of Water (in)	Infiltration Rate, It (in/hr)
7:10	7:40	8.8	Y	0:30	5.01	5.05	0.48	30	62.5	45.5	45.0	45.2	0.04
7:40	8:10	8.8	N	0:30	5.05	5.07	0.24	30	125.0	45.0	44.8	44.9	0.02
8:10	8:40	8.8	N	0:30	5.07	5.09	0.24	30	125.0	44.8	44.5	44.6	0.02
8:40	9:10	8.8	N	0:30	5.09	5.10	0.12	30	250.0	44.5	44.4	44.5	0.01
9:10	9:40	8.8	N	0:30	5.10	5.11	0.12	30	250.0	44.4	44.3	44.3	0.01
9:40	10:10	8.8	N	0:30	5.11	5.12	0.12	30	250.0	44.3	44.2	44.2	0.01
10:10	10:40	8.8	N	0:30	5.12	5.13	0.12	30	250.0	44.2	44.0	44.1	0.01
10:40	11:10	8.8	N	0:30	5.13	5.14	0.12	30	250.0	44.0	43.9	44.0	0.01
11:10	11:40	8.8	N	0:30	5.14	5.15	0.12	30	250.0	43.9	43.8	43.9	0.01
11:40	12:10	8.8	N	0:30	5.15	5.16	0.12	30	250.0	43.8	43.7	43.7	0.01
12:10	12:40	8.8	N	0:30	5.16	5.17	0.12	30	250.0	43.7	43.6	43.6	0.01
12:40	13:10	8.8	N	0:30	5.17	5.18	0.12	30	250.0	43.6	43.4	43.5	0.01
Recommended for Design:										**Infiltration Rate**			**0.01**

SALEM engineering group, inc.

Appendix 4: Historical Site Conditions

Phase I Environmental Site Assessment or Other Information on Past Site Use

NOT APPLICABLE

Appendix 5: LID Infeasibility

LID Technical Infeasibility Analysis

Appendix 6: BMP Design Details

BMP Sizing, Design Details and other Supporting Documentation

Santa Ana Watershed - BMP Design Volume, V_{BMP}

(Rev. 10-2011)

Legend: Required Entries / Calculated Cells

*(Note this worksheet shall **only** be used in conjunction with BMP designs from the **LID BMP Design Handbook**)*

Company Name: Gil Zulueta Mendoza Associates, Inc. | Date: 2/15/2021

Designed by: Gil Mendoza | Case No:

Company Project Number/Name: Calimesa Gas Station

BMP Identification

BMP NAME / ID: DMA1

Must match Name/ID used on BMP Design Calculation Sheet

Design Rainfall Depth

85th Percentile, 24-hour Rainfall Depth, from the Isohyetal Map in Handbook Appendix E

D_{85}= 0.80 inches

Drainage Management Area Tabulation

Insert additional rows if needed to accommodate all DMAs draining to the BMP

DMA Type/ID	DMA Area (square feet)	Post-Project Surface Type	Effective Imperivous Fraction, I_f	DMA Runoff Factor	DMA Areas x Runoff Factor	*Design Storm Depth (in)*	*Design Capture Volume, V_{BMP} (cubic feet)*	*Proposed Volume on Plans (cubic feet)*
A/1	*10939*	*Ornamental Landscaping*	*0.1*	*0.11*	*1208.3*			
D/1	*39571*	*Concrete or Asphalt*	*1*	*0.89*	*35297.3*			
D/2	*4726*	*Roofs*	*1*	*0.89*	*4215.6*			

Santa Ana Watershed - BMP Design Volume, V_{BMP}

(Rev. 10-2011)

Legend: Required Entries / Calculated Cells

*(Note this worksheet shall **only** be used in conjunction with BMP designs from the **LID BMP Design Handbook**)*

Company Name: Gil Zulueta Mendoza Associates, Inc. — Date: 2/15/2021

Designed by: Gil Mendoza — Case No:

Company Project Number/Name: Calimesa Gas Station

BMP Identification

BMP NAME / ID: DMA2

Must match Name/ID used on BMP Design Calculation Sheet

Design Rainfall Depth

85th Percentile, 24-hour Rainfall Depth, from the Isohyetal Map in Handbook Appendix E

D_{85} = 0.80 inches

Drainage Management Area Tabulation

Insert additional rows if needed to accommodate all DMAs draining to the BMP

DMA Type/ID	DMA Area (square feet)	Post-Project Surface Type	Effective Imperivous Fraction, I_f	DMA Runoff Factor	DMA Areas x Runoff Factor	*Design Storm Depth (in)*	*Design Capture Volume, V_{BMP} (cubic feet)*	*Proposed Volume on Plans (cubic feet)*
A/1	*15488*	*Ornamental Landscaping*	*0.1*	*0.11*	*1710.8*			
D/1	*81783*	*Concrete or Asphalt*	*1*	*0.89*	*72950.4*			
D/2	*10719*	*Roofs*	*1*	*0.89*	*9561.3*			

Bioretention Facility - Design Procedure (Rev. 06-2014)	BMP ID 1	Legend:	Required Entries / Calculated Cells

Company Name:	Gil Zulueta Mendoza Associates, Inc.	Date:	2/15/2021
Designed by:	Gil Mendoza	County/City Case No.:	Calimesa

Design Volume

Enter the area tributary to this feature	A_{TRIB}=	1.27	acres
Enter V_{BMP} determined from Section 4.3 of this Handbook	V_{BMP}=	2,715	ft^3

Type of Bioretention Facility Design

○ Side slopes required (parallel to parking spaces or adjacent to walkways)

◉ No side slopes required (perpendicular to parking space or Planter Boxes)

Bioretention Facility Surface Area

Depth of Soil Filter Media Layer	d_S =	3.0	ft
Top Width of Bioretention Facility, excluding curb	w_T =	6.0	ft
Total Effective Depth, d_E			
$d_E = [(0.3) \times d_S + (0.4) \times 1] + 0.5$	d_E =	1.80	ft
Minimum Surface Area, A_m			
$A_M\ (ft^2) = \frac{V_{BMP}\ (ft^3)}{d_E\ (ft)}$	A_M =	1,509	ft^2
Proposed Surface Area	A=	1,613	ft^2
Minimum Required Length of Landscaped Retention Facility, L	L =	251.5	ft

Bioretention Facility Properties

Side Slopes in Bioretention Facility	z =		:1
Diameter of Underdrain			inches
Longitudinal Slope of Site (3% maximum)			%
6" Check Dam Spacing			feet

Describe Landscaping:

Notes:

Bioretention Facility - Design Procedure (Rev. 06-2014)	BMP ID 2 and 3	Legend:	Required Entries / Calculated Cells

Company Name: Gil Zulueta Mendoza Associates, Inc. Date: 2/15/2021

Designed by: Gil Mendoza County/City Case No.: Calimesa

Design Volume

Enter the area tributary to this feature	A_{TRIB} =	2.48	acres
Enter V_{BMP} determined from Section 4.3 of this Handbook	V_{BMP} =	5,615	ft^3

Type of Bioretention Facility Design

○ Side slopes required (parallel to parking spaces or adjacent to walkways)

◉ No side slopes required (perpendicular to parking space or Planter Boxes)

Bioretention Facility Surface Area

Depth of Soil Filter Media Layer	d_S =	3.0	ft
Top Width of Bioretention Facility, excluding curb	w_T =	6.0	ft
Total Effective Depth, d_E			
$d_E = [(0.3) \times d_S + (0.4) \times 1] + 0.5$	d_E =	1.80	ft
Minimum Surface Area, A_m			
$A_M\ (ft^2) = \frac{V_{BMP}\ (ft^3)}{d_E\ (ft)}$	A_M =	3,120	ft^2
Proposed Surface Area	A=	3,120	ft^2
Minimum Required Length of Landscaped Retention Facility, L	L =	520.0	ft

Bioretention Facility Properties

Side Slopes in Bioretention Facility	z =		:1
Diameter of Underdrain			inches
Longitudinal Slope of Site (3% maximum)			%
6" Check Dam Spacing			feet

Describe Landscaping:

Notes:

Appendix 7: Hydromodification

Supporting Detail Relating to Hydrologic Conditions of Concern

Appendix 8: Source Control

Pollutant Sources/Source Control Checklist

STORMWATER POLLUTANT SOURCES/SOURCE CONTROL CHECKLIST

How to use this worksheet (also see instructions in Section G of the WQMP Template):

1. Review Column 1 and identify which of these potential sources of stormwater pollutants apply to your site. Check each box that applies.
2. Review Column 2 and incorporate all of the corresponding applicable BMPs in your WQMP Exhibit.
3. Review Columns 3 and 4 and incorporate all of the corresponding applicable permanent controls and operational BMPs in your WQMP. Use the format shown in Table G.1on page 23 of this WQMP Template. Describe your specific BMPs in an accompanying narrative, and explain any special conditions or situations that required omitting BMPs or substituting alternative BMPs for those shown here.

IF THESE SOURCES WILL BE ON THE PROJECT SITE ...	... THEN YOUR WQMP SHOULD INCLUDE THESE SOURCE CONTROL BMPs, AS APPLICABLE		
1 Potential Sources of Runoff Pollutants	2 Permanent Controls—Show on WQMP Drawings	3 Permanent Controls—List in WQMP Table and Narrative	4 Operational BMPs—Include in WQMP Table and Narrative
❑ A. **On-site storm drain inlets**	❑ **Locations of inlets.**	❑ **Mark all inlets with the words "Only Rain Down the Storm Drain" or similar. Catch Basin Markers may be available from the Riverside County Flood Control and Water Conservation District, call 951.955.1200 to verify.**	❑ **Maintain and periodically repaint or replace inlet markings.** ❑ **Provide stormwater pollution prevention information to new site owners, lessees, or operators.** ❑ **See applicable operational BMPs in Fact Sheet SC-44, "Drainage System Maintenance," in the CASQA Stormwater Quality Handbooks at www.cabmphandbooks.com** ❑ **Include the following in lease agreements: "Tenant shall not allow anyone to discharge anything to storm drains or to store or deposit materials so as to create a potential discharge to storm drains."**
❑ B. **Interior floor drains and elevator shaft sump pumps**		❑ **State that interior floor drains and elevator shaft sump pumps will be plumbed to sanitary sewer.**	❑ **Inspect and maintain drains to prevent blockages and overflow.**
❑ C. **Interior parking garages**		❑ **State that parking garage floor drains will be plumbed to the sanitary sewer.**	❑ **Inspect and maintain drains to prevent blockages and overflow.**

IF THESE SOURCES WILL BE ON THE PROJECT SITE ...	... THEN YOUR WQMP SHOULD INCLUDE THESE SOURCE CONTROL BMPs, AS APPLICABLE		
1 Potential Sources of Runoff Pollutants	2 Permanent Controls—Show on WQMP Drawings	3 Permanent Controls—List in WQMP Table and Narrative	4 Operational BMPs—Include in WQMP Table and Narrative
☐ D1. **Need for future indoor & structural pest control**		☐ **Note building design features that discourage entry of pests.**	☐ **Provide Integrated Pest Management information to owners, lessees, and operators.**
☒ D2. **Landscape/ Outdoor Pesticide Use**	☐ **Show locations of native trees or areas of shrubs and ground cover to be undisturbed and retained.** ☐ **Show self-retaining landscape areas, if any.** ☐ **Show stormwater treatment and hydrograph modification management BMPs. (See instructions in Chapter 3, Step 5 and guidance in Chapter 5.)**	**State that final landscape plans will accomplish all of the following.** ☐ **Preserve existing native trees, shrubs, and ground cover to the maximum extent possible.** ☐ **Design landscaping to minimize irrigation and runoff, to promote surface infiltration where appropriate, and to minimize the use of fertilizers and pesticides that can contribute to stormwater pollution.** ☐ **Where landscaped areas are used to retain or detain stormwater, specify plants that are tolerant of saturated soil conditions.** ☐ **Consider using pest-resistant plants, especially adjacent to hardscape.** **To insure successful establishment, select plants appropriate to site soils, slopes, climate, sun, wind, rain, land use, air movement, ecological consistency, and plant interactions.**	☐ **Maintain landscaping using minimum or no pesticides.** ☐ **See applicable operational BMPs in "What you should know for…..Landscape and Gardening"** at http://rcflood.org/stormwater/**Error! Hyperlink reference not valid.** ☐ **Provide IPM information to new owners, lessees and operators.**

IF THESE SOURCES WILL BE ON THE PROJECT SITE ...	... THEN YOUR WQMP SHOULD INCLUDE THESE SOURCE CONTROL BMPs, AS APPLICABLE		
1 Potential Sources of Runoff Pollutants	2 Permanent Controls—Show on WQMP Drawings	3 Permanent Controls—List in WQMP Table and Narrative	4 Operational BMPs—Include in WQMP Table and Narrative
❑ E. **Pools, spas, ponds, decorative fountains, and other water features.**	❑ **Show location of water feature and a sanitary sewer cleanout in an accessible area within 10 feet. (Exception: Public pools must be plumbed according to County Department of Environmental Health Guidelines.)**	**If the Co-Permittee requires pools to be plumbed to the sanitary sewer, place a note on the plans and state in the narrative that this connection will be made according to local requirements.**	❑ **See applicable operational BMPs in** "Guidelines for Maintaining Your Swimming Pool, Jacuzzi and Garden Fountain" at http://rcflood.org/stormwater/
❑ F. **Food service**	❑ **For restaurants, grocery stores, and other food service operations, show location (indoors or in a covered area outdoors) of a floor sink or other area for cleaning floor mats, containers, and equipment.** ❑ **On the drawing, show a note that this drain will be connected to a grease interceptor before discharging to the sanitary sewer.**	❑ **Describe the location and features of the designated cleaning area.** ❑ **Describe the items to be cleaned in this facility and how it has been sized to insure that the largest items can be accommodated.**	❑ **See the brochure, "**The Food Service Industry Best Management Practices for: Restaurants, Grocery Stores, Delicatessens and Bakeries" at http://rcflood.org/stormwater/ **Provide this brochure to new site owners, lessees, and operators.**
❑ G. **Refuse areas**	❑ **Show where site refuse and recycled materials will be handled and stored for pickup. See local municipal requirements for sizes and other details of refuse areas.** ❑ **If dumpsters or other receptacles are outdoors, show how the designated area will be covered, graded, and paved to prevent run-on and show locations of berms to prevent runoff from the area.** ❑ **Any drains from dumpsters, compactors, and tallow bin areas shall be connected to a grease removal device before discharge to sanitary sewer.**	❑ **State how site refuse will be handled and provide supporting detail to what is shown on plans.** ❑ **State that signs will be posted on or near dumpsters with the words "Do not dump hazardous materials here" or similar.**	❑ **State how the following will be implemented:** **Provide adequate number of receptacles. Inspect receptacles regularly; repair or replace leaky receptacles. Keep receptacles covered. Prohibit/prevent dumping of liquid or hazardous wastes. Post "no hazardous materials" signs. Inspect and pick up litter daily and clean up spills immediately. Keep spill control materials available on-site. See Fact Sheet SC-34, "Waste Handling and Disposal" in the CASQA Stormwater Quality Handbooks at www.cabmphandbooks.com**

IF THESE SOURCES WILL BE ON THE PROJECT SITE ...	... THEN YOUR WQMP SHOULD INCLUDE THESE SOURCE CONTROL BMPs, AS APPLICABLE		
1 Potential Sources of Runoff Pollutants	2 Permanent Controls—Show on WQMP Drawings	3 Permanent Controls—List in WQMP Table and Narrative	4 Operational BMPs—Include in WQMP Table and Narrative
❑ H. **Industrial processes.**	❑ **Show process area.**	❑ **If industrial processes are to be located on site, state: "All process activities to be performed indoors. No processes to drain to exterior or to storm drain system."**	❑ **See Fact Sheet SC-10, "Non-Stormwater Discharges" in the CASQA Stormwater Quality Handbooks at www.cabmphandbooks.com** See the brochure "Industrial & Commercial Facilities Best Management Practices for: Industrial, Commercial Facilities" at http://rcflood.org/stormwater/

IF THESE SOURCES WILL BE ON THE PROJECT SITE ...	... THEN YOUR WQMP SHOULD INCLUDE THESE SOURCE CONTROL BMPs, AS APPLICABLE		
1 Potential Sources of Runoff Pollutants	2 Permanent Controls—Show on WQMP Drawings	3 Permanent Controls—List in WQMP Table and Narrative	4 Operational BMPs—Include in WQMP Table and Narrative
❑ I. **Outdoor storage of equipment or materials. (See rows J and K for source control measures for vehicle cleaning, repair, and maintenance.)**	❑ **Show any outdoor storage areas, including how materials will be covered. Show how areas will be graded and bermed to prevent run-on or run-off from area.** ❑ **Storage of non-hazardous liquids shall be covered by a roof and/or drain to the sanitary sewer system, and be contained by berms, dikes, liners, or vaults.** ❑ **Storage of hazardous materials and wastes must be in compliance with the local hazardous materials ordinance and a Hazardous Materials Management Plan for the site.**	**Include a detailed description of materials to be stored, storage areas, and structural features to prevent pollutants from entering storm drains.** **Where appropriate, reference documentation of compliance with the requirements of Hazardous Materials Programs for:** ▪ **Hazardous Waste Generation** ▪ **Hazardous Materials Release Response and Inventory** ▪ **California Accidental Release (CalARP)** ▪ **Aboveground Storage Tank** ▪ **Uniform Fire Code Article 80 Section 103(b) & (c) 1991** ▪ **Underground Storage Tank** **www.cchealth.org/groups/hazmat/**	❑ **See the Fact Sheets SC-31, "Outdoor Liquid Container Storage" and SC-33, "Outdoor Storage of Raw Materials " in the CASQA Stormwater Quality Handbooks at www.cabmphandbooks.com**

IF THESE SOURCES WILL BE ON THE PROJECT SITE ...	... THEN YOUR WQMP SHOULD INCLUDE THESE SOURCE CONTROL BMPs, AS APPLICABLE		
1 Potential Sources of Runoff Pollutants	2 Permanent Controls—Show on WQMP Drawings	3 Permanent Controls—List in WQMP Table and Narrative	4 Operational BMPs—Include in WQMP Table and Narrative
❑ J. **Vehicle and Equipment Cleaning**	❑ **Show on drawings as appropriate:** **(1) Commercial/industrial facilities having vehicle/equipment cleaning needs shall either provide a covered, bermed area for washing activities or discourage vehicle/equipment washing by removing hose bibs and installing signs prohibiting such uses.** **(2) Multi-dwelling complexes shall have a paved, bermed, and covered car wash area (unless car washing is prohibited on-site and hoses are provided with an automatic shut-off to discourage such use).** **(3) Washing areas for cars, vehicles, and equipment shall be paved, designed to prevent run-on to or runoff from the area, and plumbed to drain to the sanitary sewer.** **(4) Commercial car wash facilities shall be designed such that no runoff from the facility is discharged to the storm drain system. Wastewater from the facility shall discharge to the sanitary sewer, or a wastewater reclamation system shall be installed.**	❑ **If a car wash area is not provided, describe any measures taken to discourage on-site car washing and explain how these will be enforced.**	**Describe operational measures to implement the following (if applicable):** ❑ **Washwater from vehicle and equipment washing operations shall not be discharged to the storm drain system.** Refer to "Outdoor Cleaning Activities and Professional Mobile Service Providers" for many of the Potential Sources of Runoff Pollutants categories below. Brochure can be found at http://rcflood.org/stormwater/ ❑**Car dealerships and similar may rinse cars with water only.**

IF THESE SOURCES WILL BE ON THE PROJECT SITE ...	... THEN YOUR WQMP SHOULD INCLUDE THESE SOURCE CONTROL BMPs, AS APPLICABLE		
1 Potential Sources of Runoff Pollutants	2 Permanent Controls—Show on WQMP Drawings	3 Permanent Controls—List in WQMP Table and Narrative	4 Operational BMPs—Include in WQMP Table and Narrative
❑ K. **Vehicle/Equipment Repair and Maintenance**	❑ **Accommodate all vehicle equipment repair and maintenance indoors. Or designate an outdoor work area and design the area to prevent run-on and runoff of stormwater.** ❑ **Show secondary containment for exterior work areas where motor oil, brake fluid, gasoline, diesel fuel, radiator fluid, acid-containing batteries or other hazardous materials or hazardous wastes are used or stored. Drains shall not be installed within the secondary containment areas.** ❑ **Add a note on the plans that states either (1) there are no floor drains, or (2) floor drains are connected to wastewater pretreatment systems prior to discharge to the sanitary sewer and an industrial waste discharge permit will be obtained.**	❑ **State that no vehicle repair or maintenance will be done outdoors, or else describe the required features of the outdoor work area.** ❑ **State that there are no floor drains or if there are floor drains, note the agency from which an industrial waste discharge permit will be obtained and that the design meets that agency's requirements.** ❑ **State that there are no tanks, containers or sinks to be used for parts cleaning or rinsing or, if there are, note the agency from which an industrial waste discharge permit will be obtained and that the design meets that agency's requirements.**	**In the Stormwater Control Plan, note that all of the following restrictions apply to use the site:** ❑ **No person shall dispose of, nor permit the disposal, directly or indirectly of vehicle fluids, hazardous materials, or rinsewater from parts cleaning into storm drains.** ❑ **No vehicle fluid removal shall be performed outside a building, nor on asphalt or ground surfaces, whether inside or outside a building, except in such a manner as to ensure that any spilled fluid will be in an area of secondary containment. Leaking vehicle fluids shall be contained or drained from the vehicle immediately.** ❑ **No person shall leave unattended drip parts or other open containers containing vehicle fluid, unless such containers are in use or in an area of secondary containment.** Refer to "Automotive Maintenance & Car Care Best Management Practices for Auto Body Shops, Auto Repair Shops, Car Dealerships, Gas Stations and Fleet Service Operations". Brochure can be found at http://rcflood.org/stormwater/ Refer to Outdoor Cleaning Activities and Professional Mobile Service Providers for many of the Potential Sources of Runoff Pollutants categories below. Brochure can be found at http://rcflood.org/stormwater/

IF THESE SOURCES WILL BE ON THE PROJECT SITE ...	... THEN YOUR WQMP SHOULD INCLUDE THESE SOURCE CONTROL BMPs, AS APPLICABLE		
1 Potential Sources of Runoff Pollutants	2 Permanent Controls—Show on WQMP Drawings	3 Permanent Controls—List in WQMP Table and Narrative	4 Operational BMPs—Include in WQMP Table and Narrative
❑ L. **Fuel Dispensing Areas**	❑ **Fueling areas[6] shall have impermeable floors (i.e., portland cement concrete or equivalent smooth impervious surface) that are: a) graded at the minimum slope necessary to prevent ponding; and b) separated from the rest of the site by a grade break that prevents run-on of stormwater to the maximum extent practicable.** ❑ **Fueling areas shall be covered by a canopy that extends a minimum of ten feet in each direction from each pump. [Alternative: The fueling area must be covered and the cover's minimum dimensions must be equal to or greater than the area within the grade break or fuel dispensing area[1].] The canopy [or cover] shall not drain onto the fueling area.**		❑ **The property owner shall dry sweep the fueling area routinely.** ❑ **See the Fact Sheet SD-30 , "Fueling Areas" in the CASQA Stormwater Quality Handbooks at www.cabmphandbooks.com**

[6] **The fueling area shall be defined as the area extending a minimum of 6.5 feet from the corner of each fuel dispenser or the length at which the hose and nozzle assembly may be operated plus a minimum of one foot, whichever is greater.**

IF THESE SOURCES WILL BE ON THE PROJECT SITE ...	... THEN YOUR WQMP SHOULD INCLUDE THESE SOURCE CONTROL BMPs, AS APPLICABLE		
1 Potential Sources of Runoff Pollutants	2 Permanent Controls—Show on WQMP Drawings	3 Permanent Controls—List in WQMP Table and Narrative	4 Operational BMPs—Include in WQMP Table and Narrative
❑ M. **Loading Docks**	❑ **Show a preliminary design for the loading dock area, including roofing and drainage. Loading docks shall be covered and/or graded to minimize run-on to and runoff from the loading area. Roof downspouts shall be positioned to direct stormwater away from the loading area. Water from loading dock areas shall be drained to the sanitary sewer, or diverted and collected for ultimate discharge to the sanitary sewer.** ❑ **Loading dock areas draining directly to the sanitary sewer shall be equipped with a spill control valve or equivalent device, which shall be kept closed during periods of operation.** ❑ **Provide a roof overhang over the loading area or install door skirts (cowling) at each bay that enclose the end of the trailer.**		❑ **Move loaded and unloaded items indoors as soon as possible.** ❑ **See Fact Sheet SC-30, "Outdoor Loading and Unloading," in the CASQA Stormwater Quality Handbooks at www.cabmphandbooks.com**

IF THESE SOURCES WILL BE ON THE PROJECT SITE ...	... THEN YOUR WQMP SHOULD INCLUDE THESE SOURCE CONTROL BMPs, AS APPLICABLE		
1 Potential Sources of Runoff Pollutants	2 Permanent Controls—Show on WQMP Drawings	3 Permanent Controls—List in WQMP Table and Narrative	4 Operational BMPs—Include in WQMP Table and Narrative
❑ N. **Fire Sprinkler Test Water**		❑ **Provide a means to drain fire sprinkler test water to the sanitary sewer.**	❑ **See the note in Fact Sheet SC-41, "Building and Grounds Maintenance," in the CASQA Stormwater Quality Handbooks at www.cabmphandbooks.com**
O. **Miscellaneous Drain or Wash Water or Other Sources** ❑ **Boiler drain lines** ❑ **Condensate drain lines** ❑ **Rooftop equipment** ❑ **Drainage sumps** ❑ **Roofing, gutters, and trim.** ❑ **Other sources**		❑ **Boiler drain lines shall be directly or indirectly connected to the sanitary sewer system and may not discharge to the storm drain system.** ❑ **Condensate drain lines may discharge to landscaped areas if the flow is small enough that runoff will not occur. Condensate drain lines may not discharge to the storm drain system.** ❑ **Rooftop equipment with potential to produce pollutants shall be roofed and/or have secondary containment.** ❑ **Any drainage sumps on-site shall feature a sediment sump to reduce the quantity of sediment in pumped water.** ❑ **Avoid roofing, gutters, and trim made of copper or other unprotected metals that may leach into runoff.** **Include controls for other sources as specified by local reviewer.**	

STORMWATER POLLUTANT SOURCES/SOURCE CONTROL CHECKLIST

IF THESE SOURCES WILL BE ON THE PROJECT SITE ...	... THEN YOUR WQMP SHOULD INCLUDE THESE SOURCE CONTROL BMPs, AS APPLICABLE		
1 Potential Sources of Runoff Pollutants	2 Permanent Controls—Show on WQMP Drawings	3 Permanent Controls—List in WQMP Table and Narrative	4 Operational BMPs—Include in WQMP Table and Narrative
☒ P. **Plazas, sidewalks, and parking lots.**			☐ **Sweep plazas, sidewalks, and parking lots regularly to prevent accumulation of litter and debris. Collect debris from pressure washing to prevent entry into the storm drain system. Collect washwater containing any cleaning agent or degreaser and discharge to the sanitary sewer not to a storm drain.**

Appendix 9: O&M

Operation and Maintenance Plan and Documentation of Finance, Maintenance and Recording Mechanisms

Appendix 10: Educational Materials

BMP Fact Sheets, Maintenance Guidelines and Other End-User BMP Information

Appendix I

Noise Modeling Results
Prepared by Dudek, August 2021

NOISE APPENDIX

Terminology & Definitions

ACCOUSTIC DEFINITIONS

Term	Definition
Ambient Noise Level	The composite of noise from all sources near and far. The normal or existing level of environmental noise at a given location.
A-Weighted Sound Level, (dB[A])	The sound pressure level in decibels as measured on a sound level meter using the A-weighted filter network. The A-weighting filter de-emphasizes the very low and very high frequency components of the sound in a manner similar to the frequency response of the human ear and correlates well with subjective reactions to noise.
Community Noise Equivalent Level, (CNEL)	CNEL is the A-weighted equivalent continuous sound exposure level for a 24-hour period with a ten dB adjustment added to sound levels occurring during nighttime hours (10 pm to 7 am) and a five dB adjustment added to the sound levels occurring during the evening hours (7 pm to 10 pm).
Decibel, (dB)	A unit for measuring sound pressure level, equal to 10 times the logarithm to the base 10 of the ratio of the measured sound pressure squared to a reference pressure, which is 20 micropascals.
Average Sound Level, (L_{EQ})	The sound level corresponding to a steady state sound level and containing the same total energy as a time varying signal over a given sample period. L_{EQ} is designed to average all of the loud and quiet sound levels occurring over a specific time period.
Sound Transmission Class, (STC)	A single number rating of the noise reduction of a building element.

NOISE APPENDIX

Construction Noise Modeling Data

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 8/16/2021
Case Description: Sandalwood Travel - Site Preparation

				---- Receptor #1 ----
		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Motel (East)	Commercial	55	50	45

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Dozer	No	40		81.7	835	0
Dozer	No	40		81.7	835	0
Dozer	No	40		81.7	835	0
Front End Loader	No	40		79.1	835	0
Front End Loader	No	40		79.1	835	0
Front End Loader	No	40		79.1	835	0
Front End Loader	No	40		79.1	835	0
Water Truck	No	40		76.5	835	0

Results

		Calculated (dBA)	
Equipment		*Lmax	Leq
Dozer		57.2	53.2
Dozer		57.2	53.2
Dozer		57.2	53.2
Front End Loader		54.7	50.7
Front End Loader		54.7	50.7
Front End Loader		54.7	50.7
Front End Loader		54.7	50.7
Water Truck		52	48
	Total	57.2	60.7

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Residence (North)	Residential	55	50	45

Equipment

Description	Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Dozer	No	40		81.7	975	0
Dozer	No	40		81.7	975	0
Dozer	No	40		81.7	975	0
Front End Loader	No	40		79.1	975	0
Front End Loader	No	40		79.1	975	0
Front End Loader	No	40		79.1	975	0
Front End Loader	No	40		79.1	975	0
Water Truck	No	40		76.5	975	0

Results

Calculated (dBA)

Equipment		*Lmax	Leq
Dozer		55.9	51.9
Dozer		55.9	51.9
Dozer		55.9	51.9
Front End Loader		53.3	49.3
Front End Loader		53.3	49.3
Front End Loader		53.3	49.3
Front End Loader		53.3	49.3
Water Truck		50.6	46.7
	Total	55.9	59.3

*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Residence (East)	Residential	55	50	45

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Dozer	No	40		81.7	1085	0
Dozer	No	40		81.7	1085	0
Dozer	No	40		81.7	1085	0
Front End Loader	No	40		79.1	1085	0
Front End Loader	No	40		79.1	1085	0
Front End Loader	No	40		79.1	1085	0
Front End Loader	No	40		79.1	1085	0
Water Truck	No	40		76.5	1085	0

Results

Calculated (dBA)

Equipment		*Lmax	Leq
Dozer		54.9	51
Dozer		54.9	51
Dozer		54.9	51
Front End Loader		52.4	48.4
Front End Loader		52.4	48.4
Front End Loader		52.4	48.4
Front End Loader		52.4	48.4
Water Truck		49.7	45.7
	Total	54.9	58.4

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 8/16/2021
Case Description: Sandalwood Travel - Grading

		Baselines (dBA)		---- Receptor #1 ----
Description	Land Use	Daytime	Evening	Night
Motel (East)	Commercial	55	50	45

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Dozer	No	40		81.7	835	0
Excavator	No	40		80.7	835	0
Grader	No	40	85		835	0
Front End Loader	No	40		79.1	835	0
Front End Loader	No	40		79.1	835	0
Front End Loader	No	40		79.1	835	0
Water Truck	No	40		76.5	835	0

Results

		Calculated (dBA)	
Equipment		*Lmax	Leq
Dozer		57.2	53.2
Excavator		56.3	52.3
Grader		60.5	56.6
Front End Loader		54.7	50.7
Front End Loader		54.7	50.7
Front End Loader		54.7	50.7
Water Truck		52	48
	Total	60.5	61

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Residence (North)	Residential	55	50	45

Equipment

Description	Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Dozer	No	40		81.7	975	0
Excavator	No	40		80.7	975	0
Grader	No	40	85		975	0
Front End Loader	No	40		79.1	975	0
Front End Loader	No	40		79.1	975	0
Front End Loader	No	40		79.1	975	0
Water Truck	No	40		76.5	975	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Dozer	55.9	51.9
Excavator	54.9	50.9
Grader	59.2	55.2
Front End Loader	53.3	49.3
Front End Loader	53.3	49.3
Front End Loader	53.3	49.3
Water Truck	50.6	46.7
Total	59.2	59.6

*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Residence (East)	Residential	55	50	45

Equipment

Description	Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Dozer	No	40		81.7	1085	0
Excavator	No	40		80.7	1085	0
Grader	No	40	85		1085	0
Front End Loader	No	40		79.1	1085	0
Front End Loader	No	40		79.1	1085	0
Front End Loader	No	40		79.1	1085	0
Water Truck	No	40		76.5	1085	0

Results

Calculated (dBA)

Equipment		*Lmax	Leq
Dozer		54.9	51
Excavator		54	50
Grader		58.3	54.3
Front End Loader		52.4	48.4
Front End Loader		52.4	48.4
Front End Loader		52.4	48.4
Water Truck		49.7	45.7
	Total	58.3	58.7

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 8/16/2021
Case Description: Sandalwood Travel - Building Construction

		Baselines (dBA)		---- Receptor #1 ----
Description	Land Use	Daytime	Evening	Night
Motel (East)	Commercial	55	50	45

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	835	0
Gradall	No	40		83.4	835	0
Gradall	No	40		83.4	835	0
Gradall	No	40		83.4	835	0
Generator	No	50		80.6	835	0
Backhoe	No	40		77.6	835	0
Backhoe	No	40		77.6	835	0
Backhoe	No	40		77.6	835	0
Welder / Torch	No	40		74	835	0

Results

		Calculated (dBA)	
Equipment		*Lmax	Leq
Crane		56.1	48.1
Gradall		58.9	55
Gradall		58.9	55
Gradall		58.9	55
Generator		56.2	53.2
Backhoe		53.1	49.1
Backhoe		53.1	49.1
Backhoe		53.1	49.1
Welder / Torch		49.5	45.6
	Total	58.9	61.7

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Residence (North)	Residential	55	50	45

Equipment

Description	Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	975	0
Gradall	No	40		83.4	975	0
Gradall	No	40		83.4	975	0
Gradall	No	40		83.4	975	0
Generator	No	50		80.6	975	0
Backhoe	No	40		77.6	975	0
Backhoe	No	40		77.6	975	0
Backhoe	No	40		77.6	975	0
Welder / Torch	No	40		74	975	0

Results

Calculated (dBA)

Equipment		*Lmax	Leq
Crane		54.7	46.8
Gradall		57.6	53.6
Gradall		57.6	53.6
Gradall		57.6	53.6
Generator		54.8	51.8
Backhoe		51.8	47.8
Backhoe		51.8	47.8
Backhoe		51.8	47.8
Welder / Torch		48.2	44.2
	Total	57.6	60.4

*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Residence (East)	Residential	55	50	45

Equipment

Description	Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	1085	0
Gradall	No	40		83.4	1085	0
Gradall	No	40		83.4	1085	0
Gradall	No	40		83.4	1085	0
Generator	No	50		80.6	1085	0
Backhoe	No	40		77.6	1085	0
Backhoe	No	40		77.6	1085	0
Backhoe	No	40		77.6	1085	0
Welder / Torch	No	40		74	1085	0

Results

Calculated (dBA)

Equipment		*Lmax	Leq
Crane		53.8	45.9
Gradall		56.7	52.7
Gradall		56.7	52.7
Gradall		56.7	52.7
Generator		53.9	50.9
Backhoe		50.8	46.9
Backhoe		50.8	46.9
Backhoe		50.8	46.9
Welder / Torch		47.3	43.3
	Total	56.7	59.5

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 8/16/2021
Case Description: Sandalwood Travel - Paving

		Baselines (dBA)		---- Receptor #1 ----
Description	Land Use	Daytime	Evening	Night
Motel (East)	Commercial	55	50	45

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Mixer Truck	No	40		78.8	835	0
Concrete Mixer Truck	No	40		78.8	835	0
Paver	No	50		77.2	835	0
Paving Equipment	No	50	80		835	0
Paving Equipment	No	50	80		835	0
Roller	No	20		80	835	0
Roller	No	20		80	835	0
Backhoe	No	40		77.6	835	0

Results

	Calculated (dBA)	
Equipment	*Lmax	Leq
Concrete Mixer Truck	54.3	50.4
Concrete Mixer Truck	54.3	50.4
Paver	52.8	49.8
Paving Equipment	55.5	52.5
Paving Equipment	55.5	52.5
Roller	55.5	48.6
Roller	55.5	48.6
Backhoe	53.1	49.1
Total	55.5	59.5

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Residence (North)	Residential	55	50	45

Equipment

Description	Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Mixer Truck	No	40		78.8	975	0
Concrete Mixer Truck	No	40		78.8	975	0
Paver	No	50		77.2	975	0
Paving Equipment	No	50	80		975	0
Paving Equipment	No	50	80		975	0
Roller	No	20		80	975	0
Roller	No	20		80	975	0
Backhoe	No	40		77.6	975	0

Results

Calculated (dBA)

Equipment		*Lmax	Leq
Concrete Mixer Truck		53	49
Concrete Mixer Truck		53	49
Paver		51.4	48.4
Paving Equipment		54.2	51.2
Paving Equipment		54.2	51.2
Roller		54.2	47.2
Roller		54.2	47.2
Backhoe		51.8	47.8
	Total	54.2	58.2

*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Residence (East)	Residential	55	50	45

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Mixer Truck	No	40		78.8	1085	0
Concrete Mixer Truck	No	40		78.8	1085	0
Paver	No	50		77.2	1085	0
Paving Equipment	No	50	80		1085	0
Paving Equipment	No	50	80		1085	0
Roller	No	20		80	1085	0
Roller	No	20		80	1085	0
Backhoe	No	40		77.6	1085	0

Results

		Calculated (dBA)	
Equipment		*Lmax	Leq
Concrete Mixer Truck		52.1	48.1
Concrete Mixer Truck		52.1	48.1
Paver		50.5	47.5
Paving Equipment		53.3	50.3
Paving Equipment		53.3	50.3
Roller		53.3	46.3
Roller		53.3	46.3
Backhoe		50.8	46.9
	Total	53.3	57.2

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 8/16/2021
Case Description: Sandalwood Travel - Arch Coating

---- Receptor #1 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Motel (East)	Commercial	55	50	45

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	835	0

Results

Equipment	Calculated (dBA) *Lmax	Leq
Compressor (air)	53.2	49.2
Total	53.2	49.2

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Residence (North)	Residential	55	50	45

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	975	0

Results

Equipment	Calculated (dBA) *Lmax	Leq
Compressor (air)	51.9	47.9
Total	51.9	47.9

*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Residence (East)	Residential	55	50	45

Equipment

Description	Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	1085	0

Results

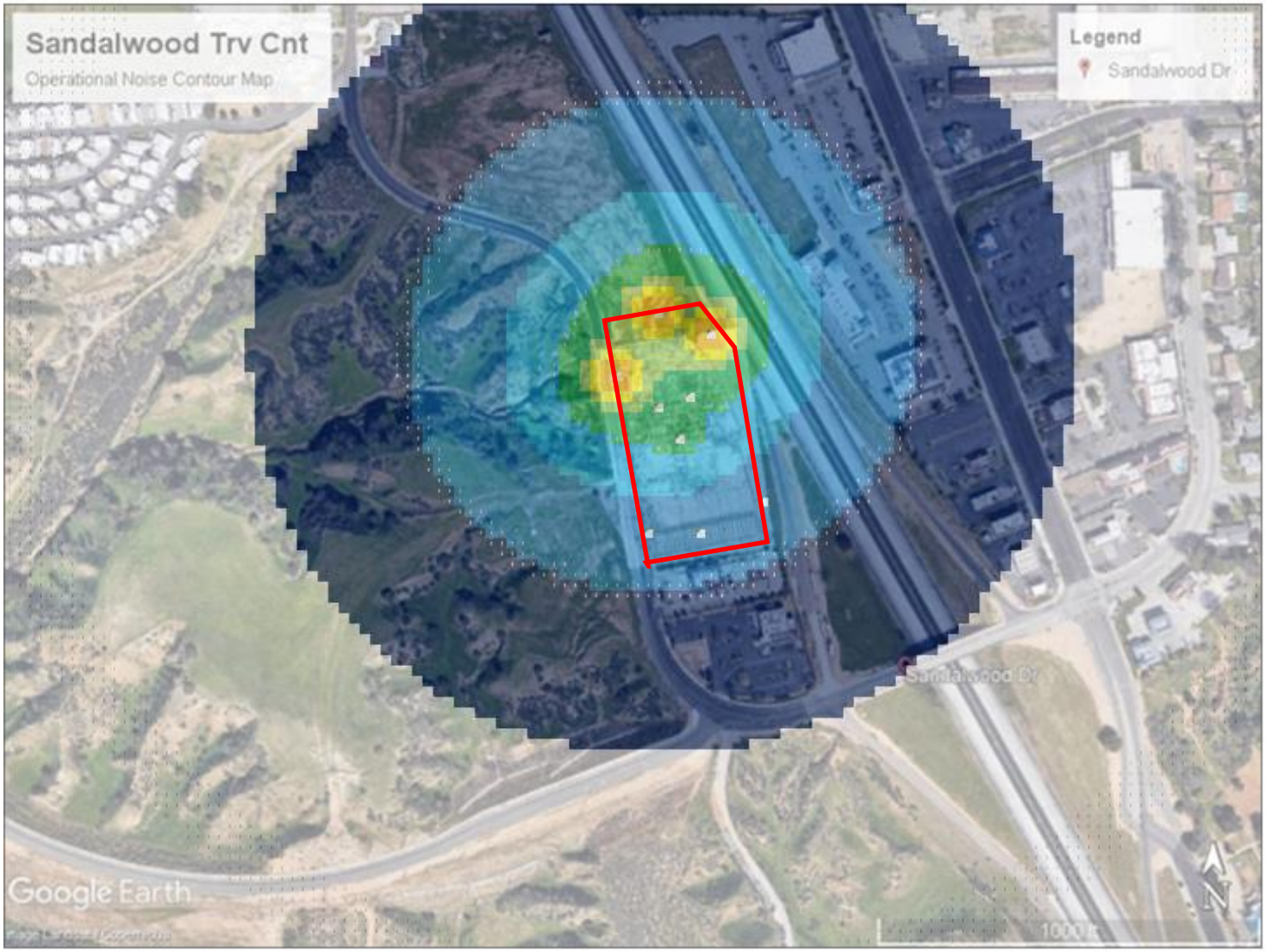
Calculated (dBA)

Equipment		*Lmax	Leq
Compressor (air)		50.9	47
	Total	50.9	47

*Calculated Lmax is the Loudest value.

NOISE APPENDIX

Operational Noise Modeling Results



Legend		
OPS SOUND LEVEL		
	dBA range	
Color	High	Low
	70	65
	65	60
	60	55
	55	50
	50	45
	45	40
	40	35

PROJECT SITE

ON-SITE OPERATIONAL NOISE EXHIBIT

Sandalwood Travel Center - Calimesa

NOISE APPENDIX

Traffic Noise Modeling Worksheets

FHWA - HIGHWAY TRAFFIC NOISE PREDICTION MODEL

(modified for CNEL)

DUDEK

PROJECT:	Sandalwood Travel Center IS/MND	JN:	13143
ROADWAY:	I-10 North of Sandalwood	DATE:	8/13/21
Scenario:	**Existing**	BY:	J. Leech

ADT	111,000			PK HR VOL	11,100
SPEED	65				
PK HR %	10				
DIST CTL	450				
DIST N/F	76	(M=76,P=52,S=36,C=12)	AUTO SLE DISTANCE		448.4
DIST WALL	0		MED TRUCK SLE DIST		448.4
DIST W/OB	450		HVY TRUCK SLE DIST		448.4
HTH WALL	0.0	********			
HTH OBS	5.0				
AMBIENT	50.0				
ROADWAY VIEW:					
LF ANGLE	-25				
RT ANGLE	25				
DF ANGLE	50				

SITE CONDITIONS:		(15=HARD SITE, 10=SOFT SITE)			
AUTOM	15.0				
MED TR	15.0				
HVY TR	15.0				
BARRIER	0	(0=WALL,1=BERM)			
ELEVATIONS:					
PAD	0.0	AUTOMOBILES =	0.00		
ROAD	0.0	MEDIUM TRUCKS=	2.30		
		HEAVY TRUCKS =	8.01		
GRADE:	0.0 %	GRADE ADJUSTM=	0.0	(TO HEAVY TRUCKS)	

VEHICLE DISTRIBUTION:

	DAY	EVE	NIGHT	DAILY
AUTOMOBILES	0.770	0.127	0.096	0.9700
MEDIUM TRUCKS	0.874	0.051	0.075	0.0100
HEAVY TRUCKS	0.891	0.028	0.081	0.0200

NOISE IMPACTS WITHOUT TOPO OR BARRIER SHIELDING:

	LEQ PK HR	LEQ DAY	LEQ EVE	LEQ NIGHT	CNEL
AUTOMOBILES	64.1	62.2	60.4	54.4	63.6
MEDIUM TRUCKS	54.6	53.2	46.8	43.8	53.3
HEAVY TRUCKS	60.9	59.6	50.7	50.4	59.6
VEHICULAR NOISE	66.1	64.5	61.0	56.1	**65.4**

FHWA - HIGHWAY TRAFFIC NOISE PREDICTION MODEL

(modified for CNEL)

DUDEK

PROJECT:	Sandalwood Travel Center IS/MND	JN:	13143
ROADWAY:	Calimesa Boulevard South of Sandalwood	DATE:	8/13/21
Scenario:	**Existing**	BY:	J. Leech

ADT	5,900			PK HR VOL	590
SPEED	40				
PK HR %	10				
DIST CTL	120				
DIST N/F	76	(M=76,P=52,S=36,C=12)	AUTO SLE DISTANCE		113.9
DIST WALL	0		MED TRUCK SLE DIST		113.9
DIST W/OB	120		HVY TRUCK SLE DIST		113.9
HTH WALL	0.0	********			
HTH OBS	5.0				
AMBIENT	50.0				
ROADWAY VIEW:					
LF ANGLE	-25				
RT ANGLE	25				
DF ANGLE	50				

SITE CONDITIONS:		(15=HARD SITE, 10=SOFT SITE)			
AUTOM	15.0				
MED TR	15.0				
HVY TR	15.0				
BARRIER	0	(0=WALL,1=BERM)			
ELEVATIONS:					
PAD	0.0	AUTOMOBILES =	0.00		
ROAD	0.0	MEDIUM TRUCKS=	2.30		
		HEAVY TRUCKS =	8.01		
GRADE:	0.0 %	GRADE ADJUSTM=	0.0	(TO HEAVY TRUCKS)	

VEHICLE DISTRIBUTION:

	DAY	EVE	NIGHT	DAILY
AUTOMOBILES	0.770	0.127	0.096	0.9700
MEDIUM TRUCKS	0.874	0.051	0.075	0.0100
HEAVY TRUCKS	0.891	0.028	0.081	0.0200

NOISE IMPACTS WITHOUT TOPO OR BARRIER SHIELDING:

	LEQ PK HR	LEQ DAY	LEQ EVE	LEQ NIGHT	CNEL
AUTOMOBILES	54.4	52.5	50.7	44.7	53.9
MEDIUM TRUCKS	45.7	44.4	38.0	35.0	44.4
HEAVY TRUCKS	54.0	52.7	43.8	43.5	52.7
VEHICULAR NOISE	57.5	55.9	51.7	47.4	**56.6**

FHWA - HIGHWAY TRAFFIC NOISE PREDICTION MODEL

(modified for CNEL)

DUDEK

PROJECT:	Sandalwood Travel Center IS/MND	JN:	13143
ROADWAY:	Calimesa Boulevard South of Sandalwood	DATE:	8/13/21
Scenario:	**Existing + Project**	BY:	J. Leech

ADT	6,200			PK HR VOL	620
SPEED	40				
PK HR %	10				
DIST CTL	120				
DIST N/F	76	(M=76,P=52,S=36,C=12)	AUTO SLE DISTANCE		113.9
DIST WALL	0		MED TRUCK SLE DIST		113.9
DIST W/OB	120		HVY TRUCK SLE DIST		113.9
HTH WALL	0.0	********			
HTH OBS	5.0				
AMBIENT	50.0				
ROADWAY VIEW:					
LF ANGLE	-25				
RT ANGLE	25				
DF ANGLE	50				

SITE CONDITIONS:		(15=HARD SITE, 10=SOFT SITE)			
AUTOM	15.0				
MED TR	15.0				
HVY TR	15.0				
BARRIER	0	(0=WALL,1=BERM)			
ELEVATIONS:					
PAD	0.0	AUTOMOBILES =	0.00		
ROAD	0.0	MEDIUM TRUCKS=	2.30		
		HEAVY TRUCKS =	8.01		
GRADE:	0.0 %	GRADE ADJUSTM=	0.0	(TO HEAVY TRUCKS)	

VEHICLE DISTRIBUTION:

	DAY	EVE	NIGHT	DAILY
AUTOMOBILES	0.770	0.127	0.096	0.9700
MEDIUM TRUCKS	0.874	0.051	0.075	0.0100
HEAVY TRUCKS	0.891	0.028	0.081	0.0200

NOISE IMPACTS WITHOUT TOPO OR BARRIER SHIELDING:

	LEQ PK HR	LEQ DAY	LEQ EVE	LEQ NIGHT	CNEL
AUTOMOBILES	54.6	52.7	50.9	44.9	54.1
MEDIUM TRUCKS	45.9	44.6	38.2	35.2	44.7
HEAVY TRUCKS	54.2	52.9	44.0	43.8	53.0
VEHICULAR NOISE	57.7	56.1	51.9	47.6	**56.8**

FHWA - HIGHWAY TRAFFIC NOISE PREDICTION MODEL

(modified for CNEL)

DUDEK

PROJECT:	Sandalwood Travel Center IS/MND	JN:	13143
ROADWAY:	Calimesa Boulevard South of Sandalwood	DATE:	8/13/21
Scenario:	**Background Growth Through 2022**	BY:	J. Leech

ADT	6,700			PK HR VOL	670
SPEED	40				
PK HR %	10				
DIST CTL	120				
DIST N/F	76	(M=76,P=52,S=36,C=12)	AUTO SLE DISTANCE		113.9
DIST WALL	0		MED TRUCK SLE DIST		113.9
DIST W/OB	120		HVY TRUCK SLE DIST		113.9
HTH WALL	0.0	********			
HTH OBS	5.0				
AMBIENT	50.0				
ROADWAY VIEW:					
LF ANGLE	-25				
RT ANGLE	25				
DF ANGLE	50				

SITE CONDITIONS:		(15=HARD SITE, 10=SOFT SITE)			
AUTOM	15.0				
MED TR	15.0				
HVY TR	15.0				
BARRIER	0	(0=WALL,1=BERM)			
ELEVATIONS:					
PAD	0.0		AUTOMOBILES =	0.00	
ROAD	0.0		MEDIUM TRUCKS=	2.30	
			HEAVY TRUCKS =	8.01	
GRADE:	0.0 %		GRADE ADJUSTM=	0.0	(TO HEAVY TRUCKS)

VEHICLE DISTRIBUTION:

	DAY	EVE	NIGHT	DAILY
AUTOMOBILES	0.770	0.127	0.096	0.9700
MEDIUM TRUCKS	0.874	0.051	0.075	0.0100
HEAVY TRUCKS	0.891	0.028	0.081	0.0200

NOISE IMPACTS WITHOUT TOPO OR BARRIER SHIELDING:

	LEQ PK HR	LEQ DAY	LEQ EVE	LEQ NIGHT	CNEL
AUTOMOBILES	54.9	53.0	51.2	45.2	54.4
MEDIUM TRUCKS	46.3	44.9	38.5	35.5	45.0
HEAVY TRUCKS	54.6	53.3	44.3	44.1	53.3
VEHICULAR NOISE	58.1	56.5	52.2	48.0	**57.2**

FHWA - HIGHWAY TRAFFIC NOISE PREDICTION MODEL

(modified for CNEL)

DUDEK

PROJECT:	Sandalwood Travel Center IS/MND	JN:	13143
ROADWAY:	Calimesa Boulevard South of Sandalwood	DATE:	8/13/21
Scenario:	**Background Growth Through 2022 + Project**	BY:	J. Leech

ADT	6,700			PK HR VOL	670
SPEED	40				
PK HR %	10				
DIST CTL	120				
DIST N/F	76	(M=76,P=52,S=36,C=12)	AUTO SLE DISTANCE		113.9
DIST WALL	0		MED TRUCK SLE DIST		113.9
DIST W/OB	120		HVY TRUCK SLE DIST		113.9
HTH WALL	0.0	********			
HTH OBS	5.0				
AMBIENT	50.0				
ROADWAY VIEW:					
LF ANGLE	-25				
RT ANGLE	25				
DF ANGLE	50				

SITE CONDITIONS:		(15=HARD SITE, 10=SOFT SITE)			
AUTOM	15.0				
MED TR	15.0				
HVY TR	15.0				
BARRIER	0	(0=WALL,1=BERM)			
ELEVATIONS:					
PAD	0.0		AUTOMOBILES =	0.00	
ROAD	0.0		MEDIUM TRUCKS=	2.30	
			HEAVY TRUCKS =	8.01	
GRADE:	0.0 %		GRADE ADJUSTM=	0.0	(TO HEAVY TRUCKS)

VEHICLE DISTRIBUTION:

	DAY	EVE	NIGHT	DAILY
AUTOMOBILES	0.770	0.127	0.096	0.9700
MEDIUM TRUCKS	0.874	0.051	0.075	0.0100
HEAVY TRUCKS	0.891	0.028	0.081	0.0200

NOISE IMPACTS WITHOUT TOPO OR BARRIER SHIELDING:

	LEQ PK HR	LEQ DAY	LEQ EVE	LEQ NIGHT	CNEL
AUTOMOBILES	54.9	53.0	51.2	45.2	54.4
MEDIUM TRUCKS	46.3	44.9	38.5	35.5	45.0
HEAVY TRUCKS	54.6	53.3	44.3	44.1	53.3
VEHICULAR NOISE	58.1	56.5	52.2	48.0	**57.2**

FHWA - HIGHWAY TRAFFIC NOISE PREDICTION MODEL

(modified for CNEL)

DUDEK

PROJECT:	Sandalwood Travel Center IS/MND	JN:	13143
ROADWAY:	Calimesa Boulevard South of Sandalwood	DATE:	8/13/21
Scenario:	**Cumulative Buildout**	BY:	J. Leech

ADT	5,500			PK HR VOL	550
SPEED	40				
PK HR %	10				
DIST CTL	120				
DIST N/F	76	(M=76,P=52,S=36,C=12)	AUTO SLE DISTANCE		113.9
DIST WALL	0		MED TRUCK SLE DIST		113.9
DIST W/OB	120		HVY TRUCK SLE DIST		113.9
HTH WALL	0.0	********			
HTH OBS	5.0				
AMBIENT	50.0				
ROADWAY VIEW:					
LF ANGLE	-25				
RT ANGLE	25				
DF ANGLE	50				

SITE CONDITIONS:		(15=HARD SITE, 10=SOFT SITE)			
AUTOM	15.0				
MED TR	15.0				
HVY TR	15.0				
BARRIER	0	(0=WALL,1=BERM)			
ELEVATIONS:					
PAD	0.0	AUTOMOBILES =	0.00		
ROAD	0.0	MEDIUM TRUCKS=	2.30		
		HEAVY TRUCKS =	8.01		
GRADE:	0.0 %	GRADE ADJUSTM=	0.0	(TO HEAVY TRUCKS)	

VEHICLE DISTRIBUTION:

	DAY	EVE	NIGHT	DAILY
AUTOMOBILES	0.770	0.127	0.096	0.9700
MEDIUM TRUCKS	0.874	0.051	0.075	0.0100
HEAVY TRUCKS	0.891	0.028	0.081	0.0200

NOISE IMPACTS WITHOUT TOPO OR BARRIER SHIELDING:

	LEQ PK HR	LEQ DAY	LEQ EVE	LEQ NIGHT	CNEL
AUTOMOBILES	54.1	52.2	50.4	44.4	53.6
MEDIUM TRUCKS	45.4	44.1	37.7	34.6	44.1
HEAVY TRUCKS	53.7	52.4	43.5	43.2	52.4
VEHICULAR NOISE	57.2	55.6	51.4	47.1	**56.3**

FHWA - HIGHWAY TRAFFIC NOISE PREDICTION MODEL

(modified for CNEL)

DUDEK

PROJECT:	Sandalwood Travel Center IS/MND	JN:	13143
ROADWAY:	Calimesa Boulevard South of Sandalwood	DATE:	8/13/21
Scenario:	**Cumulative Buildout + Project**	BY:	J. Leech

ADT	5,800			PK HR VOL	580
SPEED	40				
PK HR %	10				
DIST CTL	120				
DIST N/F	76	(M=76,P=52,S=36,C=12)	AUTO SLE DISTANCE		113.9
DIST WALL	0		MED TRUCK SLE DIST		113.9
DIST W/OB	120		HVY TRUCK SLE DIST		113.9
HTH WALL	0.0	********			
HTH OBS	5.0				
AMBIENT	50.0				
ROADWAY VIEW:					
LF ANGLE	-25				
RT ANGLE	25				
DF ANGLE	50				

SITE CONDITIONS:		(15=HARD SITE, 10=SOFT SITE)			
AUTOM	15.0				
MED TR	15.0				
HVY TR	15.0				
BARRIER	0	(0=WALL,1=BERM)			
ELEVATIONS:					
PAD	0.0	AUTOMOBILES =	0.00		
ROAD	0.0	MEDIUM TRUCKS=	2.30		
		HEAVY TRUCKS =	8.01		
GRADE:	0.0 %	GRADE ADJUSTM=	0.0	(TO HEAVY TRUCKS)	

VEHICLE DISTRIBUTION:

	DAY	EVE	NIGHT	DAILY
AUTOMOBILES	0.770	0.127	0.096	0.9700
MEDIUM TRUCKS	0.874	0.051	0.075	0.0100
HEAVY TRUCKS	0.891	0.028	0.081	0.0200

NOISE IMPACTS WITHOUT TOPO OR BARRIER SHIELDING:

	LEQ PK HR	LEQ DAY	LEQ EVE	LEQ NIGHT	CNEL
AUTOMOBILES	54.3	52.4	50.6	44.6	53.8
MEDIUM TRUCKS	45.7	44.3	37.9	34.9	44.4
HEAVY TRUCKS	53.9	52.7	43.7	43.5	52.7
VEHICULAR NOISE	57.4	55.8	51.6	47.3	**56.6**

FHWA - HIGHWAY TRAFFIC NOISE PREDICTION MODEL

(modified for CNEL)

DUDEK

PROJECT:	Sandalwood Travel Center IS/MND	JN:	13143
ROADWAY:	Calimesa Boulevard North of Sandalwood	DATE:	8/13/21
Scenario:	**Existing**	BY:	J. Leech

ADT	12,500			PK HR VOL	1,250
SPEED	35				
PK HR %	10				
DIST CTL	140				
DIST N/F	76	(M=76,P=52,S=36,C=12)	AUTO SLE DISTANCE		134.8
DIST WALL	0		MED TRUCK SLE DIST		134.8
DIST W/OB	140		HVY TRUCK SLE DIST		134.8
HTH WALL	0.0	********			
HTH OBS	5.0				
AMBIENT	50.0				
ROADWAY VIEW:					
LF ANGLE	-25				
RT ANGLE	25				
DF ANGLE	50				

SITE CONDITIONS:		(15=HARD SITE, 10=SOFT SITE)			
AUTOM	15.0				
MED TR	15.0				
HVY TR	15.0				
BARRIER	0	(0=WALL,1=BERM)			
ELEVATIONS:					
PAD	0.0	AUTOMOBILES =	0.00		
ROAD	0.0	MEDIUM TRUCKS=	2.30		
		HEAVY TRUCKS =	8.01		
GRADE:	0.0 %	GRADE ADJUSTM=	0.0	(TO HEAVY TRUCKS)	

VEHICLE DISTRIBUTION:

	DAY	EVE	NIGHT	DAILY
AUTOMOBILES	0.770	0.127	0.096	0.9700
MEDIUM TRUCKS	0.874	0.051	0.075	0.0100
HEAVY TRUCKS	0.891	0.028	0.081	0.0200

NOISE IMPACTS WITHOUT TOPO OR BARRIER SHIELDING:

	LEQ PK HR	LEQ DAY	LEQ EVE	LEQ NIGHT	CNEL
AUTOMOBILES	54.9	53.0	51.2	45.2	54.4
MEDIUM TRUCKS	46.5	45.1	38.8	35.7	45.2
HEAVY TRUCKS	55.3	54.0	45.1	44.9	54.1
VEHICULAR NOISE	58.4	56.9	52.3	48.3	**57.5**

FHWA - HIGHWAY TRAFFIC NOISE PREDICTION MODEL

(modified for CNEL)

DUDEK

PROJECT:	Sandalwood Travel Center IS/MND	JN:	13143
ROADWAY:	Calimesa Boulevard North of Sandalwood	DATE:	8/13/21
Scenario:	**Existing + Project**	BY:	J. Leech

ADT	12,800			PK HR VOL	1,280
SPEED	35				
PK HR %	10				
DIST CTL	140				
DIST N/F	76	(M=76,P=52,S=36,C=12)	AUTO SLE DISTANCE		134.8
DIST WALL	0		MED TRUCK SLE DIST		134.8
DIST W/OB	140		HVY TRUCK SLE DIST		134.8
HTH WALL	0.0	********			
HTH OBS	5.0				
AMBIENT	50.0				
ROADWAY VIEW:					
LF ANGLE	-25				
RT ANGLE	25				
DF ANGLE	50				

SITE CONDITIONS:		(15=HARD SITE, 10=SOFT SITE)			
AUTOM	15.0				
MED TR	15.0				
HVY TR	15.0				
BARRIER	0	(0=WALL,1=BERM)			
ELEVATIONS:					
PAD	0.0	AUTOMOBILES =	0.00		
ROAD	0.0	MEDIUM TRUCKS=	2.30		
		HEAVY TRUCKS =	8.01		
GRADE:	0.0 %	GRADE ADJUSTM=	0.0	(TO HEAVY TRUCKS)	

VEHICLE DISTRIBUTION:

	DAY	EVE	NIGHT	DAILY
AUTOMOBILES	0.770	0.127	0.096	0.9700
MEDIUM TRUCKS	0.874	0.051	0.075	0.0100
HEAVY TRUCKS	0.891	0.028	0.081	0.0200

NOISE IMPACTS WITHOUT TOPO OR BARRIER SHIELDING:

	LEQ PK HR	LEQ DAY	LEQ EVE	LEQ NIGHT	CNEL
AUTOMOBILES	55.0	53.1	51.3	45.3	54.5
MEDIUM TRUCKS	46.6	45.2	38.9	35.8	45.3
HEAVY TRUCKS	55.4	54.1	45.2	45.0	54.2
VEHICULAR NOISE	58.5	57.0	52.4	48.4	**57.6**

FHWA - HIGHWAY TRAFFIC NOISE PREDICTION MODEL

(modified for CNEL)

DUDEK

PROJECT:	Sandalwood Travel Center IS/MND	JN:	13143
ROADWAY:	Calimesa Boulevard North of Sandalwood	DATE:	8/13/21
Scenario:	**Background Growth Through 2022**	BY:	J. Leech

ADT	13,500			PK HR VOL	1,350
SPEED	35				
PK HR %	10				
DIST CTL	140				
DIST N/F	76	(M=76,P=52,S=36,C=12)	AUTO SLE DISTANCE		134.8
DIST WALL	0		MED TRUCK SLE DIST		134.8
DIST W/OB	140		HVY TRUCK SLE DIST		134.8
HTH WALL	0.0	********			
HTH OBS	5.0				
AMBIENT	50.0				
ROADWAY VIEW:					
LF ANGLE	-25				
RT ANGLE	25				
DF ANGLE	50				

SITE CONDITIONS:		(15=HARD SITE, 10=SOFT SITE)			
AUTOM	15.0				
MED TR	15.0				
HVY TR	15.0				
BARRIER	0	(0=WALL,1=BERM)			
ELEVATIONS:					
PAD	0.0	AUTOMOBILES =	0.00		
ROAD	0.0	MEDIUM TRUCKS=	2.30		
		HEAVY TRUCKS =	8.01		
GRADE:	0.0 %	GRADE ADJUSTM=	0.0	(TO HEAVY TRUCKS)	

VEHICLE DISTRIBUTION:

	DAY	EVE	NIGHT	DAILY
AUTOMOBILES	0.770	0.127	0.096	0.9700
MEDIUM TRUCKS	0.874	0.051	0.075	0.0100
HEAVY TRUCKS	0.891	0.028	0.081	0.0200

NOISE IMPACTS WITHOUT TOPO OR BARRIER SHIELDING:

	LEQ PK HR	LEQ DAY	LEQ EVE	LEQ NIGHT	CNEL
AUTOMOBILES	55.3	53.3	51.5	45.5	54.7
MEDIUM TRUCKS	46.8	45.5	39.1	36.1	45.6
HEAVY TRUCKS	55.7	54.4	45.4	45.2	54.4
VEHICULAR NOISE	58.8	57.2	52.7	48.6	**57.8**

FHWA - HIGHWAY TRAFFIC NOISE PREDICTION MODEL

(modified for CNEL)

DUDEK

PROJECT:	Sandalwood Travel Center IS/MND	JN:	13143
ROADWAY:	Calimesa Boulevard North of Sandalwood	DATE:	8/13/21
Scenario:	**Background Growth Through 2022 + Project**	BY:	J. Leech

ADT	13,800			PK HR VOL	1,380
SPEED	35				
PK HR %	10				
DIST CTL	140				
DIST N/F	76	(M=76,P=52,S=36,C=12)	AUTO SLE DISTANCE		134.8
DIST WALL	0		MED TRUCK SLE DIST		134.8
DIST W/OB	140		HVY TRUCK SLE DIST		134.8
HTH WALL	0.0	********			
HTH OBS	5.0				
AMBIENT	50.0				
ROADWAY VIEW:					
LF ANGLE	-25				
RT ANGLE	25				
DF ANGLE	50				

SITE CONDITIONS:		(15=HARD SITE, 10=SOFT SITE)			
AUTOM	15.0				
MED TR	15.0				
HVY TR	15.0				
BARRIER	0	(0=WALL,1=BERM)			
ELEVATIONS:					
PAD	0.0	AUTOMOBILES =	0.00		
ROAD	0.0	MEDIUM TRUCKS=	2.30		
		HEAVY TRUCKS =	8.01		
GRADE:	0.0 %	GRADE ADJUSTM=	0.0	(TO HEAVY TRUCKS)	

VEHICLE DISTRIBUTION:

	DAY	EVE	NIGHT	DAILY
AUTOMOBILES	0.770	0.127	0.096	0.9700
MEDIUM TRUCKS	0.874	0.051	0.075	0.0100
HEAVY TRUCKS	0.891	0.028	0.081	0.0200

NOISE IMPACTS WITHOUT TOPO OR BARRIER SHIELDING:

	LEQ PK HR	LEQ DAY	LEQ EVE	LEQ NIGHT	CNEL
AUTOMOBILES	55.4	53.4	51.6	45.6	54.8
MEDIUM TRUCKS	46.9	45.6	39.2	36.2	45.7
HEAVY TRUCKS	55.8	54.5	45.5	45.3	54.5
VEHICULAR NOISE	58.9	57.3	52.8	48.7	**57.9**

FHWA - HIGHWAY TRAFFIC NOISE PREDICTION MODEL

(modified for CNEL)

DUDEK

PROJECT:	Sandalwood Travel Center IS/MND	JN:	13143
ROADWAY:	Calimesa Boulevard North of Sandalwood	DATE:	8/13/21
Scenario:	**Cumulative Buildout**	BY:	J. Leech

ADT	18,800			PK HR VOL	1,880
SPEED	35				
PK HR %	10				
DIST CTL	140				
DIST N/F	76	(M=76,P=52,S=36,C=12)	AUTO SLE DISTANCE		134.8
DIST WALL	0		MED TRUCK SLE DIST		134.8
DIST W/OB	140		HVY TRUCK SLE DIST		134.8
HTH WALL	0.0	********			
HTH OBS	5.0				
AMBIENT	50.0				
ROADWAY VIEW:					
LF ANGLE	-25				
RT ANGLE	25				
DF ANGLE	50				

SITE CONDITIONS:		(15=HARD SITE, 10=SOFT SITE)			
AUTOM	15.0				
MED TR	15.0				
HVY TR	15.0				
BARRIER	0	(0=WALL,1=BERM)			
ELEVATIONS:					
PAD	0.0	AUTOMOBILES =	0.00		
ROAD	0.0	MEDIUM TRUCKS=	2.30		
		HEAVY TRUCKS =	8.01		
GRADE:	0.0 %	GRADE ADJUSTM=	0.0	(TO HEAVY TRUCKS)	

VEHICLE DISTRIBUTION:

	DAY	EVE	NIGHT	DAILY
AUTOMOBILES	0.770	0.127	0.096	0.9700
MEDIUM TRUCKS	0.874	0.051	0.075	0.0100
HEAVY TRUCKS	0.891	0.028	0.081	0.0200

NOISE IMPACTS WITHOUT TOPO OR BARRIER SHIELDING:

	LEQ PK HR	LEQ DAY	LEQ EVE	LEQ NIGHT	CNEL
AUTOMOBILES	56.7	54.8	53.0	47.0	56.2
MEDIUM TRUCKS	48.3	46.9	40.5	37.5	47.0
HEAVY TRUCKS	57.1	55.8	46.9	46.6	55.8
VEHICULAR NOISE	60.2	58.6	54.1	50.1	**59.3**

FHWA - HIGHWAY TRAFFIC NOISE PREDICTION MODEL

(modified for CNEL)

DUDEK

PROJECT:	Sandalwood Travel Center IS/MND	JN:	13143
ROADWAY:	Calimesa Boulevard North of Sandalwood	DATE:	8/13/21
Scenario:	**Cumulative Buildout + Project**	BY:	J. Leech

ADT	19,100			PK HR VOL	1,910
SPEED	35				
PK HR %	10				
DIST CTL	140				
DIST N/F	76	(M=76,P=52,S=36,C=12)	AUTO SLE DISTANCE		134.8
DIST WALL	0		MED TRUCK SLE DIST		134.8
DIST W/OB	140		HVY TRUCK SLE DIST		134.8
HTH WALL	0.0	********			
HTH OBS	5.0				
AMBIENT	50.0				
ROADWAY VIEW:					
LF ANGLE	-25				
RT ANGLE	25				
DF ANGLE	50				

SITE CONDITIONS:		(15=HARD SITE, 10=SOFT SITE)			
AUTOM	15.0				
MED TR	15.0				
HVY TR	15.0				
BARRIER	0	(0=WALL,1=BERM)			
ELEVATIONS:					
PAD	0.0		AUTOMOBILES =	0.00	
ROAD	0.0		MEDIUM TRUCKS=	2.30	
			HEAVY TRUCKS =	8.01	
GRADE:	0.0 %		GRADE ADJUSTM=	0.0	(TO HEAVY TRUCKS)

VEHICLE DISTRIBUTION:

	DAY	EVE	NIGHT	DAILY
AUTOMOBILES	0.770	0.127	0.096	0.9700
MEDIUM TRUCKS	0.874	0.051	0.075	0.0100
HEAVY TRUCKS	0.891	0.028	0.081	0.0200

NOISE IMPACTS WITHOUT TOPO OR BARRIER SHIELDING:

	LEQ PK HR	LEQ DAY	LEQ EVE	LEQ NIGHT	CNEL
AUTOMOBILES	56.8	54.8	53.0	47.0	56.3
MEDIUM TRUCKS	48.4	47.0	40.6	37.6	47.1
HEAVY TRUCKS	57.2	55.9	46.9	46.7	55.9
VEHICULAR NOISE	60.3	58.7	54.2	50.1	**59.4**

FHWA - HIGHWAY TRAFFIC NOISE PREDICTION MODEL

(modified for CNEL)

DUDEK

PROJECT:	Sandalwood Travel Center IS/MND	JN:	13143
ROADWAY:	Sandalwood East of Calimesa (5th)	DATE:	8/13/21
Scenario:	**Existing**	BY:	J. Leech

ADT	6,900			PK HR VOL	690
SPEED	35				
PK HR %	10				
DIST CTL	50				
DIST N/F	52	(M=76,P=52,S=36,C=12)	AUTO SLE DISTANCE		43.0
DIST WALL	0		MED TRUCK SLE DIST		42.8
DIST W/OB	50		HVY TRUCK SLE DIST		42.8
HTH WALL	0.0	********			
HTH OBS	5.0				
AMBIENT	50.0				
ROADWAY VIEW:					
LF ANGLE	-25				
RT ANGLE	25				
DF ANGLE	50				

SITE CONDITIONS:		(15=HARD SITE, 10=SOFT SITE)			
AUTOM	15.0				
MED TR	15.0				
HVY TR	15.0				
BARRIER	0	(0=WALL,1=BERM)			
ELEVATIONS:					
PAD	0.0	AUTOMOBILES =	0.00		
ROAD	0.0	MEDIUM TRUCKS=	2.30		
		HEAVY TRUCKS =	8.01		
GRADE:	0.0 %	GRADE ADJUSTM=	0.0	(TO HEAVY TRUCKS)	

VEHICLE DISTRIBUTION:

	DAY	EVE	NIGHT	DAILY
AUTOMOBILES	0.770	0.127	0.096	0.9700
MEDIUM TRUCKS	0.874	0.051	0.075	0.0100
HEAVY TRUCKS	0.891	0.028	0.081	0.0200

NOISE IMPACTS WITHOUT TOPO OR BARRIER SHIELDING:

	LEQ PK HR	LEQ DAY	LEQ EVE	LEQ NIGHT	CNEL
AUTOMOBILES	59.8	57.9	56.1	50.1	59.3
MEDIUM TRUCKS	51.4	50.0	43.7	40.6	50.1
HEAVY TRUCKS	60.2	58.9	50.0	49.7	58.9
VEHICULAR NOISE	63.3	61.7	57.2	53.2	**62.4**

FHWA - HIGHWAY TRAFFIC NOISE PREDICTION MODEL

(modified for CNEL)

DUDEK

PROJECT:	Sandalwood Travel Center IS/MND	JN:	13143
ROADWAY:	Sandalwood East of Calimesa (5th)	DATE:	8/13/21
Scenario:	**Existing + Project**	BY:	J. Leech

ADT	7,500			PK HR VOL	750
SPEED	35				
PK HR %	10				
DIST CTL	50				
DIST N/F	52	(M=76,P=52,S=36,C=12)	AUTO SLE DISTANCE		43.0
DIST WALL	0		MED TRUCK SLE DIST		42.8
DIST W/OB	50		HVY TRUCK SLE DIST		42.8
HTH WALL	0.0	********			
HTH OBS	5.0				
AMBIENT	50.0				
ROADWAY VIEW:					
LF ANGLE	-25				
RT ANGLE	25				
DF ANGLE	50				

SITE CONDITIONS:		(15=HARD SITE, 10=SOFT SITE)			
AUTOM	15.0				
MED TR	15.0				
HVY TR	15.0				
BARRIER	0	(0=WALL,1=BERM)			
ELEVATIONS:					
PAD	0.0	AUTOMOBILES =	0.00		
ROAD	0.0	MEDIUM TRUCKS=	2.30		
		HEAVY TRUCKS =	8.01		
GRADE:	0.0 %	GRADE ADJUSTM=	0.0	(TO HEAVY TRUCKS)	

VEHICLE DISTRIBUTION:

	DAY	EVE	NIGHT	DAILY
AUTOMOBILES	0.770	0.127	0.096	0.9700
MEDIUM TRUCKS	0.874	0.051	0.075	0.0100
HEAVY TRUCKS	0.891	0.028	0.081	0.0200

NOISE IMPACTS WITHOUT TOPO OR BARRIER SHIELDING:

	LEQ PK HR	LEQ DAY	LEQ EVE	LEQ NIGHT	CNEL
AUTOMOBILES	60.2	58.2	56.4	50.4	59.6
MEDIUM TRUCKS	51.8	50.4	44.0	41.0	50.5
HEAVY TRUCKS	60.6	59.3	50.4	50.1	59.3
VEHICULAR NOISE	63.7	62.1	57.6	53.5	**62.8**

FHWA - HIGHWAY TRAFFIC NOISE PREDICTION MODEL

(modified for CNEL)

DUDEK

PROJECT:	Sandalwood Travel Center IS/MND	JN:	13143
ROADWAY:	Sandalwood East of Calimesa (5th)	DATE:	8/13/21
Scenario:	**Background Growth Through 2022**	BY:	J. Leech

ADT	7,900			PK HR VOL	790
SPEED	35				
PK HR %	10				
DIST CTL	50				
DIST N/F	52	(M=76,P=52,S=36,C=12)	AUTO SLE DISTANCE		43.0
DIST WALL	0		MED TRUCK SLE DIST		42.8
DIST W/OB	50		HVY TRUCK SLE DIST		42.8
HTH WALL	0.0	********			
HTH OBS	5.0				
AMBIENT	50.0				
ROADWAY VIEW:					
LF ANGLE	-25				
RT ANGLE	25				
DF ANGLE	50				

SITE CONDITIONS:		(15=HARD SITE, 10=SOFT SITE)			
AUTOM	15.0				
MED TR	15.0				
HVY TR	15.0				
BARRIER	0	(0=WALL,1=BERM)			
ELEVATIONS:					
PAD	0.0	AUTOMOBILES =	0.00		
ROAD	0.0	MEDIUM TRUCKS=	2.30		
		HEAVY TRUCKS =	8.01		
GRADE:	0.0 %	GRADE ADJUSTM=	0.0	(TO HEAVY TRUCKS)	

VEHICLE DISTRIBUTION:

	DAY	EVE	NIGHT	DAILY
AUTOMOBILES	0.770	0.127	0.096	0.9700
MEDIUM TRUCKS	0.874	0.051	0.075	0.0100
HEAVY TRUCKS	0.891	0.028	0.081	0.0200

NOISE IMPACTS WITHOUT TOPO OR BARRIER SHIELDING:

	LEQ PK HR	LEQ DAY	LEQ EVE	LEQ NIGHT	CNEL
AUTOMOBILES	60.4	58.5	56.6	50.7	59.9
MEDIUM TRUCKS	52.0	50.6	44.3	41.2	50.7
HEAVY TRUCKS	60.8	59.5	50.6	50.3	59.5
VEHICULAR NOISE	63.9	62.3	57.8	53.8	**63.0**

FHWA - HIGHWAY TRAFFIC NOISE PREDICTION MODEL

(modified for CNEL)

DUDEK

PROJECT:	Sandalwood Travel Center IS/MND	JN:	13143
ROADWAY:	Sandalwood East of Calimesa (5th)	DATE:	8/13/21
Scenario:	**Background Growth Through 2022 + Project**	BY:	J. Leech

ADT	8,500			PK HR VOL	850
SPEED	35				
PK HR %	10				
DIST CTL	50				
DIST N/F	52	(M=76,P=52,S=36,C=12)	AUTO SLE DISTANCE		43.0
DIST WALL	0		MED TRUCK SLE DIST		42.8
DIST W/OB	50		HVY TRUCK SLE DIST		42.8
HTH WALL	0.0	********			
HTH OBS	5.0				
AMBIENT	50.0				
ROADWAY VIEW:					
LF ANGLE	-25				
RT ANGLE	25				
DF ANGLE	50				

SITE CONDITIONS:		(15=HARD SITE, 10=SOFT SITE)			
AUTOM	15.0				
MED TR	15.0				
HVY TR	15.0				
BARRIER	0	(0=WALL,1=BERM)			
ELEVATIONS:					
PAD	0.0		AUTOMOBILES =	0.00	
ROAD	0.0		MEDIUM TRUCKS=	2.30	
			HEAVY TRUCKS =	8.01	
GRADE:	0.0 %		GRADE ADJUSTM=	0.0	(TO HEAVY TRUCKS)

VEHICLE DISTRIBUTION:

	DAY	EVE	NIGHT	DAILY
AUTOMOBILES	0.770	0.127	0.096	0.9700
MEDIUM TRUCKS	0.874	0.051	0.075	0.0100
HEAVY TRUCKS	0.891	0.028	0.081	0.0200

NOISE IMPACTS WITHOUT TOPO OR BARRIER SHIELDING:

	LEQ PK HR	LEQ DAY	LEQ EVE	LEQ NIGHT	CNEL
AUTOMOBILES	60.7	58.8	57.0	51.0	60.2
MEDIUM TRUCKS	52.3	50.9	44.6	41.5	51.0
HEAVY TRUCKS	61.1	59.8	50.9	50.7	59.9
VEHICULAR NOISE	64.2	62.7	58.1	54.1	**63.3**

FHWA - HIGHWAY TRAFFIC NOISE PREDICTION MODEL

(modified for CNEL)

DUDEK

PROJECT:	Sandalwood Travel Center IS/MND	JN:	13143
ROADWAY:	Sandalwood East of Calimesa (5th)	DATE:	8/13/21
Scenario:	**Cumulative Buildout**	BY:	J. Leech

ADT	8,500			PK HR VOL	850
SPEED	35				
PK HR %	10				
DIST CTL	50				
DIST N/F	52	(M=76,P=52,S=36,C=12)	AUTO SLE DISTANCE		43.0
DIST WALL	0		MED TRUCK SLE DIST		42.8
DIST W/OB	50		HVY TRUCK SLE DIST		42.8
HTH WALL	0.0	********			
HTH OBS	5.0				
AMBIENT	50.0				
ROADWAY VIEW:					
LF ANGLE	-25				
RT ANGLE	25				
DF ANGLE	50				

SITE CONDITIONS:		(15=HARD SITE, 10=SOFT SITE)			
AUTOM	15.0				
MED TR	15.0				
HVY TR	15.0				
BARRIER	0	(0=WALL,1=BERM)			
ELEVATIONS:					
PAD	0.0		AUTOMOBILES =	0.00	
ROAD	0.0		MEDIUM TRUCKS=	2.30	
			HEAVY TRUCKS =	8.01	
GRADE:	0.0 %		GRADE ADJUSTM=	0.0	(TO HEAVY TRUCKS)

VEHICLE DISTRIBUTION:

	DAY	EVE	NIGHT	DAILY
AUTOMOBILES	0.770	0.127	0.096	0.9700
MEDIUM TRUCKS	0.874	0.051	0.075	0.0100
HEAVY TRUCKS	0.891	0.028	0.081	0.0200

NOISE IMPACTS WITHOUT TOPO OR BARRIER SHIELDING:

	LEQ PK HR	LEQ DAY	LEQ EVE	LEQ NIGHT	CNEL
AUTOMOBILES	60.7	58.8	57.0	51.0	60.2
MEDIUM TRUCKS	52.3	50.9	44.6	41.5	51.0
HEAVY TRUCKS	61.1	59.8	50.9	50.7	59.9
VEHICULAR NOISE	64.2	62.7	58.1	54.1	**63.3**

FHWA - HIGHWAY TRAFFIC NOISE PREDICTION MODEL

(modified for CNEL)

DUDEK

PROJECT:	Sandalwood Travel Center IS/MND	JN:	13143
ROADWAY:	Sandalwood East of Calimesa (5th)	DATE:	8/13/21
Scenario:	**Cumulative Buildout + Project**	BY:	J. Leech

ADT	9,100			PK HR VOL	910
SPEED	35				
PK HR %	10				
DIST CTL	50				
DIST N/F	52	(M=76,P=52,S=36,C=12)	AUTO SLE DISTANCE		43.0
DIST WALL	0		MED TRUCK SLE DIST		42.8
DIST W/OB	50		HVY TRUCK SLE DIST		42.8
HTH WALL	0.0	********			
HTH OBS	5.0				
AMBIENT	50.0				
ROADWAY VIEW:					
LF ANGLE	-25				
RT ANGLE	25				
DF ANGLE	50				

SITE CONDITIONS:		(15=HARD SITE, 10=SOFT SITE)			
AUTOM	15.0				
MED TR	15.0				
HVY TR	15.0				
BARRIER	0	(0=WALL,1=BERM)			
ELEVATIONS:					
PAD	0.0	AUTOMOBILES =	0.00		
ROAD	0.0	MEDIUM TRUCKS=	2.30		
		HEAVY TRUCKS =	8.01		
GRADE:	0.0 %	GRADE ADJUSTM=	0.0	(TO HEAVY TRUCKS)	

VEHICLE DISTRIBUTION:

	DAY	EVE	NIGHT	DAILY
AUTOMOBILES	0.770	0.127	0.096	0.9700
MEDIUM TRUCKS	0.874	0.051	0.075	0.0100
HEAVY TRUCKS	0.891	0.028	0.081	0.0200

NOISE IMPACTS WITHOUT TOPO OR BARRIER SHIELDING:

	LEQ PK HR	LEQ DAY	LEQ EVE	LEQ NIGHT	CNEL
AUTOMOBILES	61.0	59.1	57.3	51.3	60.5
MEDIUM TRUCKS	52.6	51.2	44.9	41.8	51.3
HEAVY TRUCKS	61.4	60.1	51.2	51.0	60.1
VEHICULAR NOISE	64.5	62.9	58.4	54.4	**63.6**

Appendix J-1
Traffic Impact Assessment

SANDALWOOD TRAVEL CENTER TRAFFIC IMPACT ANALYSIS

City of Calimesa

February 22, 2021

Traffic Engineering ● Transportation Planning ● Parking ● Noise & Vibration
Air Quality ● Global Climate Change ● Health Risk Assessment

SANDALWOOD TRAVEL CENTER
TRAFFIC IMPACT ANALYSIS

City of Calimesa

February 22, 2021

prepared by
Bryan Crawford
Giancarlo Ganddini, TE



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Project No. 19317

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EXECUTIVE SUMMARY

Project Description

The currently vacant project site is proposed to be developed with a 7,110 square foot travel center with eight (8) vehicle fueling positions, four (4) diesel fueling positions, and a fast-food restaurant with drive-through window. Access for the project site is proposed to 7th Street via three project driveways. The project north driveway is proposed as a full access driveway. The project central driveway is proposed as an outbound only full access driveway. The project south driveway is proposed as an inbound only full access driveway. On-site signage and pavement markings for these inbound and outbound only project driveways should be included in the final site design to the satisfaction of the City of Calimesa Department of Public Works. On-street parking on 7th Street will be prohibited. The project north driveway will service the normal travel center operations whereas the project central driveway and project south driveway will service the four (4) diesel fueling positions. The proposed project is anticipated to be constructed and fully operational by year 2022.

Existing Conditions

The study intersections currently operate within acceptable Levels of Service (D or better) during the peak hours for Existing conditions.

The proposed project is forecast to generate a total of approximately 3,693 daily trips, including 251 trips during the AM peak hour and 268 trips during the PM peak hour.

Level of Service Analysis

Table 8 shows a summary of the intersection Level of Service analysis for the scenarios evaluated.

Vehicle Miles Traveled (VMT) Analysis

The proposed project satisfies the City-established VMT screening criteria for low VMT area and project type screening; therefore, the project may be presumed to result in a less than significant VMT impact and no further analysis is required.

1. INTRODUCTION

This section describes the purpose of this study and the project description. Although this is a technical report, effort has been made to write the report clearly and concisely. A glossary is provided in Appendix A to assist the reader with technical terms related to transportation engineering and planning.

PURPOSE AND OBJECTIVES

The purpose of this traffic impact analysis is to assess potential transportation impacts resulting from development of the proposed project primarily in the context of City of Calimesa discretionary authority and General Plan conformance. A separate vehicle miles traveled (VMT) analysis is provided in the appendices for compliance with California Environmental Quality Act (CEQA) Section 15064.3. The scope of this study was prepared in consultation with the City of Calimesa as documented in Appendix B.

PROJECT DESCRIPTION

The project site is located between 7th Street and the I-10 Freeway approximately 1,000 feet north of Sandalwood Drive in the City of Calimesa. Figure 1 shows the project location map.

The currently vacant project site is proposed to be developed with a 7,110 square foot travel center with eight (8) vehicle fueling positions, four (4) diesel fueling positions, and a fast-food restaurant with drive-through window. Access for the project site is proposed to 7th Street via three project driveways. The project north driveway is proposed as a full access driveway. The project central driveway is proposed as an outbound only full access driveway. The project south driveway is proposed as an inbound only full access driveway. On-site signage and pavement markings for these inbound and outbound only project driveways should be included in the final site design to the satisfaction of the City of Calimesa Department of Public Works. On-street parking on 7th Street will be prohibited. The project north driveway will service the normal travel center operations whereas the project central driveway and project south driveway will service the four (4) diesel fueling positions. The proposed project is anticipated to be constructed and fully operational by year 2022. Figure 2 illustrates the proposed project site plan.

STUDY AREA

The study intersections and general scope of the analysis were determined based on coordination with the City of Calimesa. The study area consists of the following study intersections where the proposed project is expected to contribute 50 or more peak hour trips with classification of "Collector" to "Collector" and above, that are located within the City of Calimesa and Caltrans jurisdictions:

Study Intersections[1]	Jurisdiction[2]
1. 7th Street (NS) at Project North Driveway (EW)	City of Calimesa
2. 7th Street (NS) at Project Central Driveway (EW)	City of Calimesa
3. 7th Street (NS) at Project South Driveway (EW)	City of Calimesa
4. 7th Street (NS) at Sandalwood Drive (EW)	City of Calimesa
5. I-10 SB Ramps (NS) at Sandalwood Drive (EW)	Caltrans
6. I-10 NB On-Ramp (NS) at Sandalwood Drive (EW)	Caltrans
7. Calimesa Boulevard (NS) at Sandalwood Drive (EW)	City of Calimesa
8. I-10 NB Off-Ramp (NS) at Calimesa Boulevard (EW)	Caltrans

[1] (NS) = north-south roadway; (EW) = east-west roadway; SB = Southbound; NB = Northbound
[2] Caltrans = California Department of Transportation

ANALYSIS SCENARIOS

The following scenarios are analyzed during typical weekday AM and PM peak hour conditions:

- Existing Conditions
- Background Conditions (Ambient Growth + Other Development (2022)
- Background Conditions Plus Project (2022)
- Cumulative No Project (Ambient Growth + Other Development) (2040)
- Cumulative Plus Project (2040)



Legend

(#) Study Intersection

Figure 1
Project Location Map

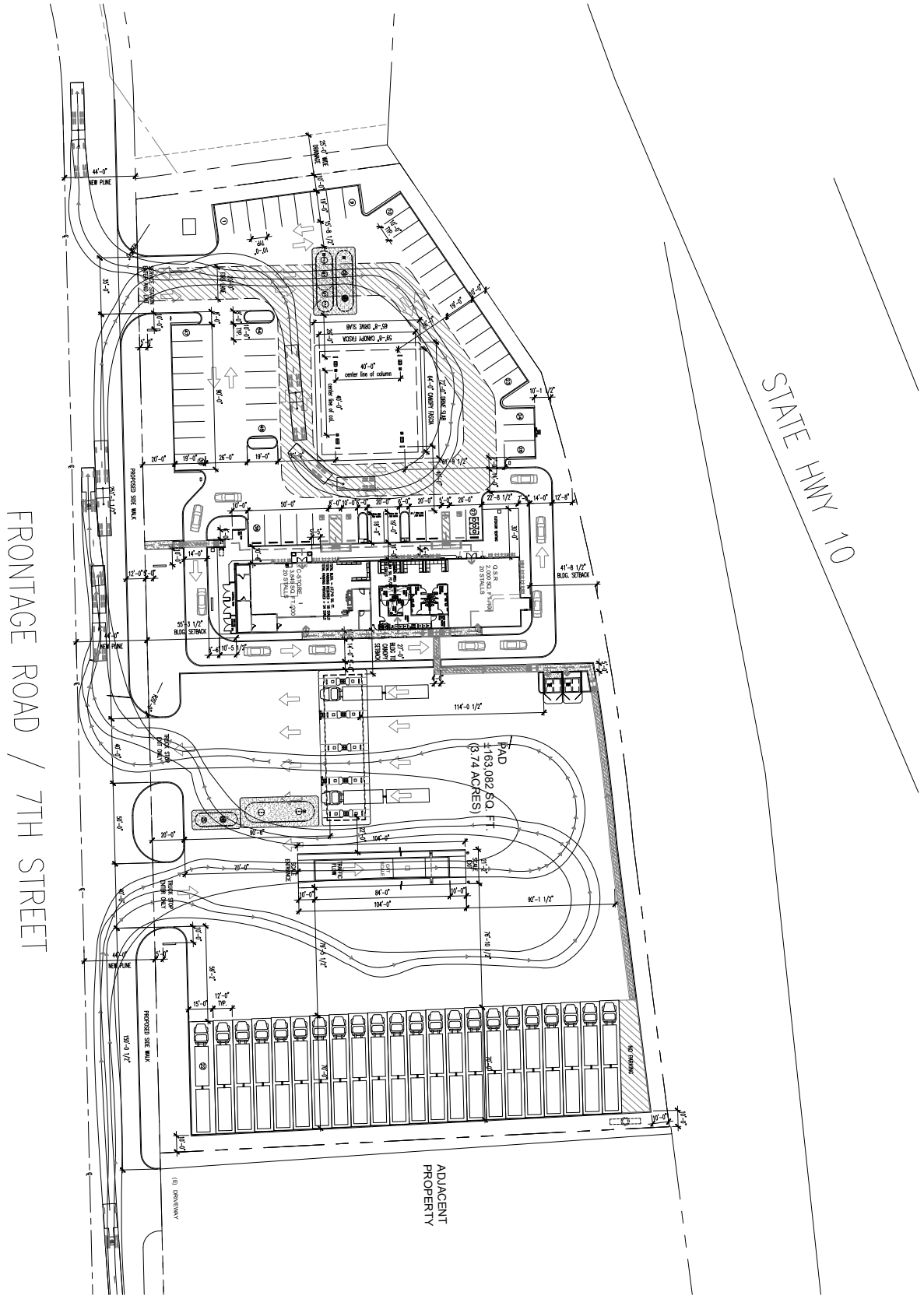


Figure 2
Site Plan

2. METHODOLOGY

This section discusses the analysis methodologies used to assess transportation facility performance as adopted by the respective jurisdictional agencies.

LEVEL OF SERVICE/GENERAL PLAN CONFORMANCE (NON-CEQA)

Level of Service analysis is performed for assessing General Plan operational conformance within the approving agency's discretionary authority. In accordance with CEQA provisions, a project's effect on automobile delay, as measured by Level of Service, shall not constitute a significant environmental impact.

Intersection Delay Methodology

Level of Service analysis is performed for assessing General Plan operational conformance within the approving agency's discretionary authority. In accordance with CEQA provisions, a project's effect on automobile delay, as measured by Level of Service, shall not constitute a significant environmental impact.

To assess the performance of an intersection, the City of Calimesa use the intersection delay method based on procedures contained in the Highway Capacity Manual (Transportation Research Board, 6th Edition). The methodology considers the traffic volume and distribution of movements, traffic composition, geometric characteristics, and signalization details to calculate the average control delay per vehicle and corresponding Level of Service. Control delay is defined as the portion of delay attributed to the intersection traffic control (such as a traffic signal or stop sign) and includes initial deceleration, queue move-up time, stopped delay, and final acceleration delay. The intersection control delay is then correlated to Level of Service based on the following thresholds:

Level of Service	Intersection Control Delay (Seconds / Vehicle)	
	Signalized Intersection	Unsignalized Intersection
A	≤ 10.0	≤ 10.0
B	> 10.0 to ≤ 20.0	> 10.0 to ≤ 15.0
C	> 20.0 to ≤ 35.0	> 15.0 to ≤ 25.0
D	> 35.0 to ≤ 55.0	> 25.0 to ≤ 35.0
E	> 55.0 to ≤ 80.0	> 35.0 to ≤ 50.0
F	> 80.0	> 50.0

Source: Transportation Research Board, Highway Capacity Manual (6th Edition).

Level of Service is used to qualitatively describe the performance of a roadway facility, ranging from Level of Service A (free-flow conditions) to Level of Service F (extreme congestion and system failure). At intersections with traffic signal or all way stop control, Level of Service is determined by the average control delay for the overall intersection. At intersections with cross street stop control (i.e., one- or two-way stop control), Level of Service is determined by the average control delay for the worst individual movement (or movements sharing a single lane).

Intersection delay analysis was performed using the Vistro software in accordance with parameters outlined in Exhibit C of the Riverside County Transportation Department Traffic Impact Analysis Preparation Guide (April 2008).

Performance Standards

City of Calimesa

The definition of an intersection deficiency has been obtained from the City of Calimesa General Plan, which states that the City has a goal of Level of Service C on City-maintained roads. However, Level of Service D may be allowed on City-maintained road segments in commercial and employment areas or any combination of major highways, urban arterials, secondary highways, or freeway ramp intersections. Therefore, Level of Service D has been considered acceptable at the off-site study intersections at or near the vicinity of the I-10 Freeway ramps and Level of Service C has been considered acceptable at all other study locations, including on-site intersections.

California Department of Transportation

The California Department of Transportation (Caltrans) endeavors to maintain a target Level of Service at the transition between Level of Service C and D (maximum 35 seconds of control delay). If an existing facility, or study area intersection for purposes of this analysis, operates at an unacceptable Level of Service, then the existing control delay should be maintained. The lead agency may consult with the California Department of Transportation to determine the appropriate target Level of Service if the maximum 35 seconds of control delay is not feasible.

Operational Thresholds

City of Calimesa

Based on the established performance standards, a potentially operational transportation deficiency is defined to occur if the project causes or worsens unacceptable Level of Service (E, or F) at a study intersection at or near the vicinity of the I-10 Freeway Ramps, or if the project causes or worsens unacceptable Level of Service (D, E, or F) at all other study intersections including on-site intersections,

California Department of Transportation

Based on the established performance standards, a potentially operational transportation deficiency is defined to occur if the project causes or worsens unacceptable Level of Service (E, or F) at a freeway ramp.

Requirement for Improvements

If a proposed project is forecast to result in an operational transportation deficiency, improvements should be identified that will reduce the impact to a less than operational threshold level. Improvements can be in many forms, including the addition of lanes, traffic control modification, or demand management measures. If no feasible improvements can be identified for an operationally impacted facility, project approval may require the City of Calimesa to adopt a statement of overriding considerations.

Direct project impacts are identified in the Existing Plus Project analysis scenario and must be improved via conditions of approval requiring the construction of any improvements necessary to meet the established Level of Service standards (or reduce the project impact to pre-project conditions). Cumulative impacts are identified in the cumulative conditions scenario and may be improved through the payment of various impact fees such as the County of Riverside Development Impact Fees, Road and Bridge Benefit District Fees, and the Transportation Uniform Mitigation Fees to the extent that these programs provide funding for the improvement facilities.

VEHICLE MILES TRAVELED METHODOLOGY (CEQA)

The methodology used to evaluate the impact of land use and transportation projects under CEQA is known as vehicle miles traveled (VMT). In general terms, VMT quantifies the amount and distance of automobile travel attributable to a project or region. A separate vehicle miles traveled (VMT) analysis is provided in the appendices for compliance with California Environmental Quality Act (CEQA) Section 15064.3 and the results are presented in the "Other Considerations" section of this report.

3. EXISTING CONDITIONS

EXISTING ROADWAY SYSTEM

Figure 3 identifies the lane geometry and intersection traffic controls for Existing conditions based on a field survey of the study area. Regional access to the project site is provided by the I-10 Freeway located adjacent to the project site to the east. Key roadways providing local circulation include 7th street, Sandalwood Drive, Calimesa Boulevard, and 5th Street.

GENERAL PLAN CONTEXT

Figure 4 shows the City of Calimesa General Plan Circulation Element roadway classifications map. This figure shows the nature and extent of arterial and collector highways that are needed to adequately serve the ultimate development depicted by the Land Use Element of the General Plan. The City of Calimesa standard roadway cross-sections are illustrated on Figure 5.

TRANSIT SERVICE

Figure 6 shows Existing public transit facilities and routes in the project vicinity serviced by the City of Beaumont Transit System. As shown on Figure 6, the project vicinity is served by the City of Beaumont Transit System Commuter Link 120 – Weekday along Calimesa Boulevard and Sandalwood Drive between I-15 SB Ramps and Calimesa Boulevard.

BICYCLE FACILITIES

The City of Calimesa has bicycle lanes painted adjacent to existing roadways. There are no facilities in the community for bikes only; however, the City does maintain a series of multi-use trails, which accommodate bicycles as well as pedestrians. There are no on-street bicycle facilities in the study area.

EXISTING PEDESTRIAN FACILITIES

Existing pedestrian facilities adjacent to the project site are illustrated on Figure 7.

EXISTING ROADWAY VOLUMES

Figure 8 shows the Existing average daily traffic volumes. The Existing average daily traffic volumes have been obtained from the California Department of Transportation (Caltrans) Traffic Volumes on California State Highways (2017) and factored from peak hour intersection turning movement volumes using the following formula for each intersection leg:

Evening Peak Hour (Approach Volume + Exit Volume) x 12.0 = Leg Volume.

Existing peak hour traffic conditions are based upon AM peak period and PM peak period intersection turning movement counts obtained in December 2020 during typical weekday conditions. The weekday AM peak period was counted between 7:00 AM and 9:00 AM and the weekday PM peak period was counted between 4:00 PM and 6:00 PM. The actual peak hour within the peak period is the four consecutive 15 minute periods with the highest total volume when all movements are added together. Thus, the weekday PM peak hour at one intersection may be 4:45 PM to 5:45 PM if those four consecutive 15 minute periods have the highest combined volume. Intersection turning movement count worksheets are provided in Appendix C.

The current COVID-19 pandemic and related stay-at-home orders imposed by state and local municipalities have resulted in a substantial decrease in traffic volumes. In addition to the current public health restrictions, it is anticipated that the pandemic may have a lasting effect on travel behaviors, such as increased telecommuting. To provide a conservative analysis, the Existing conditions traffic volumes used in this analysis are based on historic and existing counts with adjustments applied with the intent to represent pre-pandemic conditions for the current year. This approach is likely to overestimate actual volumes for the near future since many commuters are expected to continue working from home even as stay-at-home orders are eased.

A historical 24-hour roadway segment count for Sandalwood Drive between 7th Street and Calimesa Boulevard conducted in February 2020 prior to the COVID-19 pandemic was obtained from City of Calimesa Public Works Department staff. The February 2020 AM and PM peak period volumes for this roadway segment were compared to December 2020 AM and PM peak period roadway segment volumes. To bring the December 2020 counts to pre-pandemic existing year (2020) conditions, the intersection turning movement counts were adjusted by a growth rate of 165.65% during the AM peak hour and 11.55% during the PM peak hour. The Mesa Verde Middle School is located at the western terminus of Sandalwood Drive, west of 7th Street. Students are not currently on campus. The project trip generation and trip distribution for this school (enrollment of 905 students) was manually added to existing volumes to account for the school being in session. This is a conservative estimate since the growth rate was determined prior to accounting for these school trips and may overestimate pre-pandemic (2020) volumes. These adjustment factor calculations, and the growth rate increased intersection turning movement counts, are included in Appendix C

Figure 9 and Figure 10 show the Existing AM peak hour and PM peak hour intersection turning movement volumes.

Existing Levels of Service

The intersection Levels of Service for Existing conditions have been calculated and are shown in Table 1. Existing intersection Level of Service worksheets are provided in Appendix D.

As shown in Table 1, the study intersections currently operate within acceptable Levels of Service (D or better) during the peak hours for Existing conditions.

Existing Traffic Signal Warrant Analysis

The unsignalized study intersection of I-10 NB Off-Ramp at Calimesa Boulevard (#8) appears to currently satisfy the California *Manual on Uniform Traffic Control Devices* (CA MUTCD) peak hour volume warrant for Existing conditions. Traffic signal warrant worksheets are provided in Appendix E.

Table 1
Existing Intersection Levels of Service

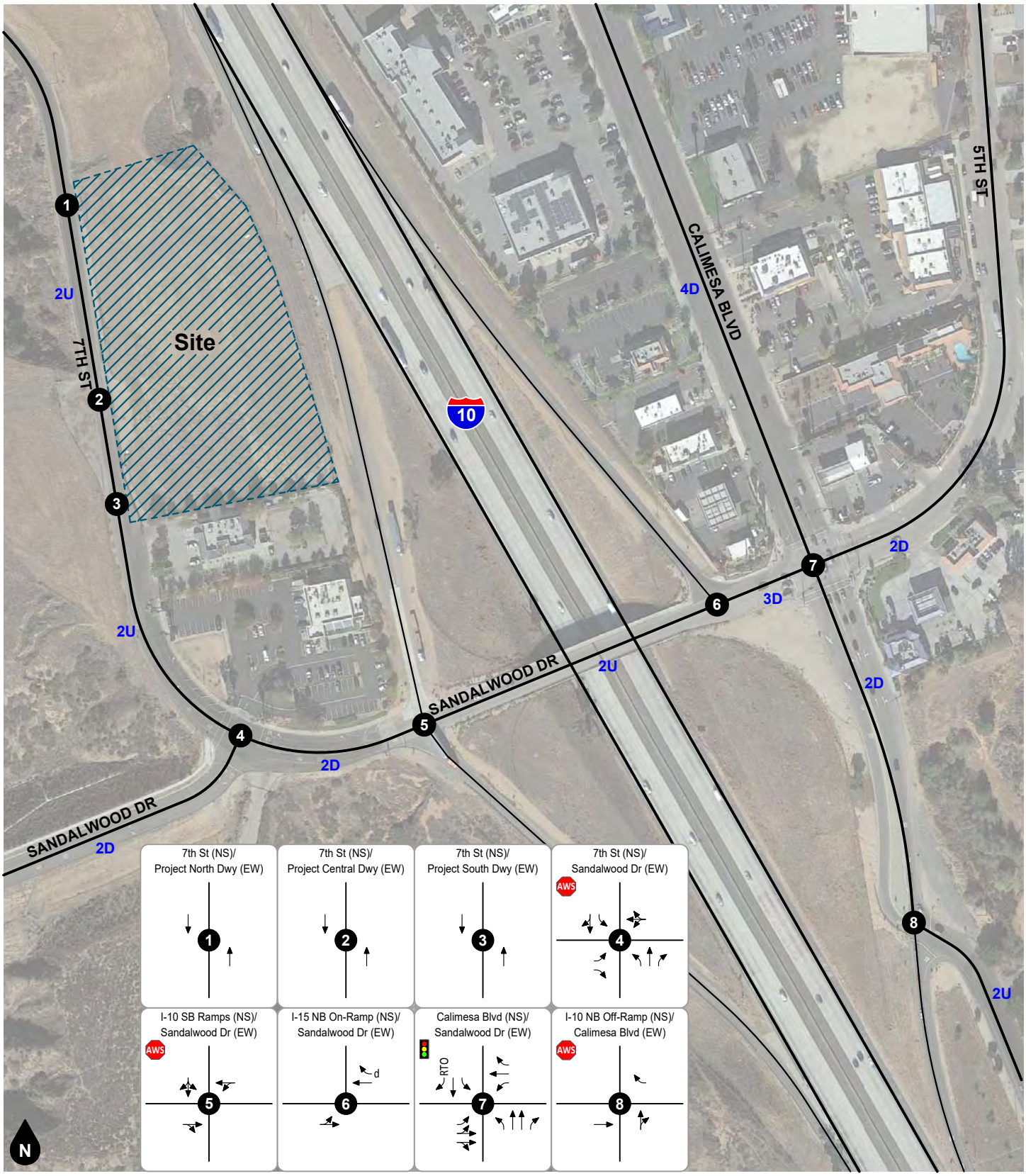
Study Intersection	Traffic Control[1]	AM Peak Hour		PM Peak Hour	
		Delay[2]	LOS[3]	Delay[2]	LOS[3]
4. 7th St at Sandalwood Dr	AWS	8.4	A	7.9	A
5. I-10 SB Ramps at Sandalwood Dr	AWS	14.5	B	11.2	B
6. I-10 NB On-Ramp at Sandalwood Dr	UN	10.8	B	8.9	A
7. Calimesa Blvd at Sandalwood Dr	TS	26.3	C	19.4	B
8. I-10 NB Off-Ramp at Calimesa Blvd	AWS	17.5	C	9.6	A

Notes:

(1) AWS = All Way Stop; UN = Uncontrolled; TS = Traffic Signal

(2) Delay is shown in seconds/vehicle. For intersections with traffic signal or all way stop control, overall average intersection delay and LOS are shown. For intersections with cross street stop control, LOS is based on average delay of the worst individual lane (or movements sharing a lane).

(3) LOS = Level of Service



Legend

- Traffic Signal
- AWS All Way Stop
- #D #-Lane Divided Roadway
- #U #-Lane Undivided Roadway
- Existing Lane
- RTO Right Turn Overlap
- d De Facto Right Turn Lane

Figure 3
Existing Lane Geometry and Intersection Traffic Controls

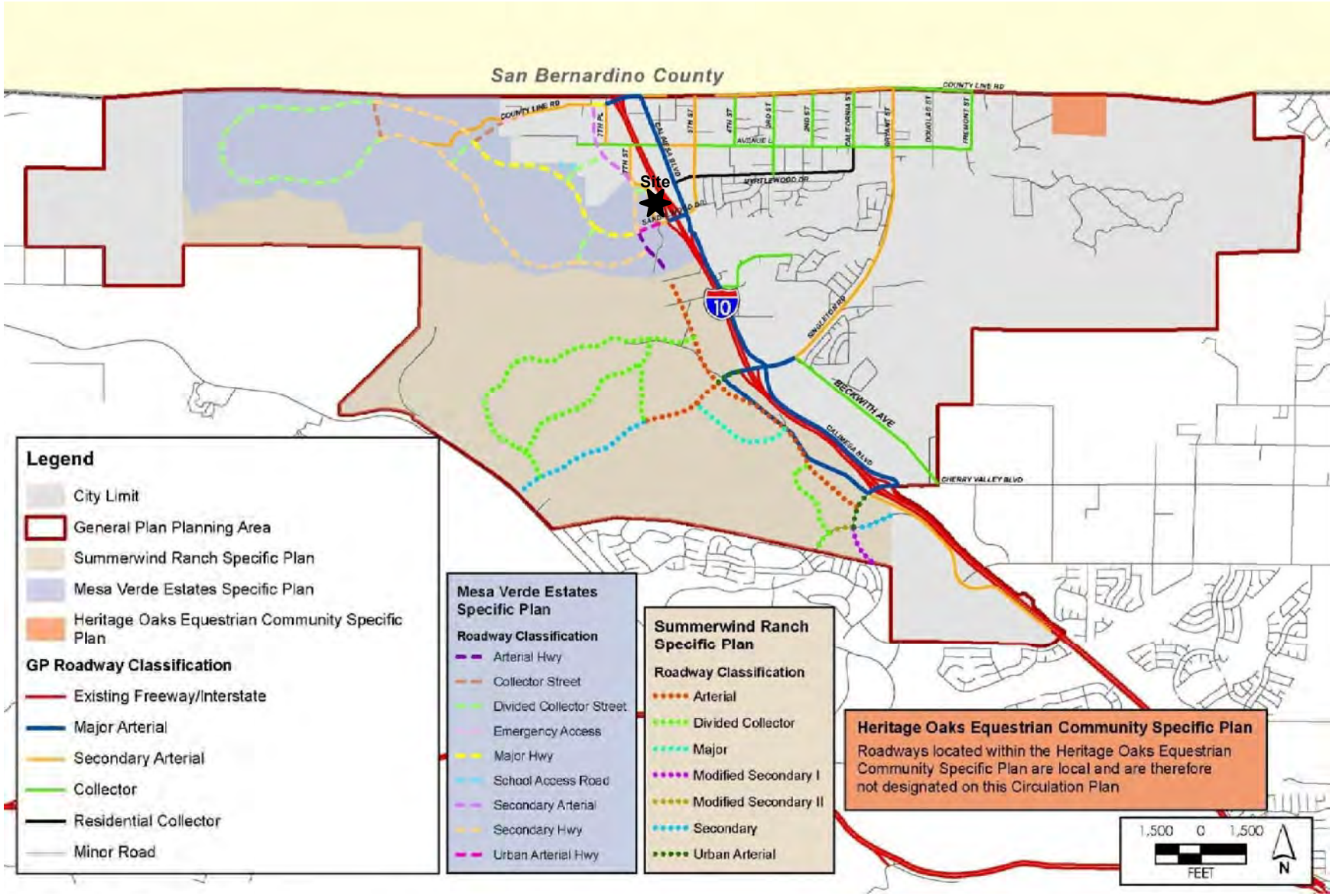


Figure 4
City of Calimesa General Plan Circulation Element

Source: City of Calimesa

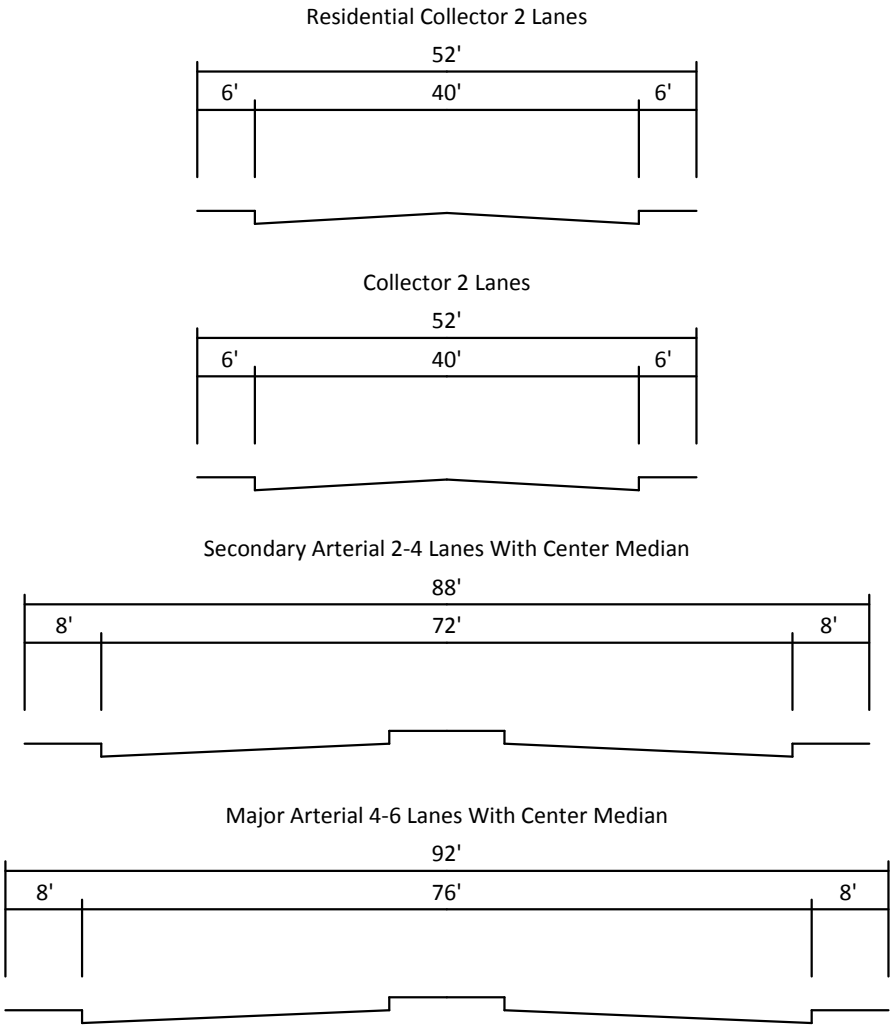


Figure 5
City of Calimesa General Plan Roadway Cross-Sections

Source: City of Calimesa

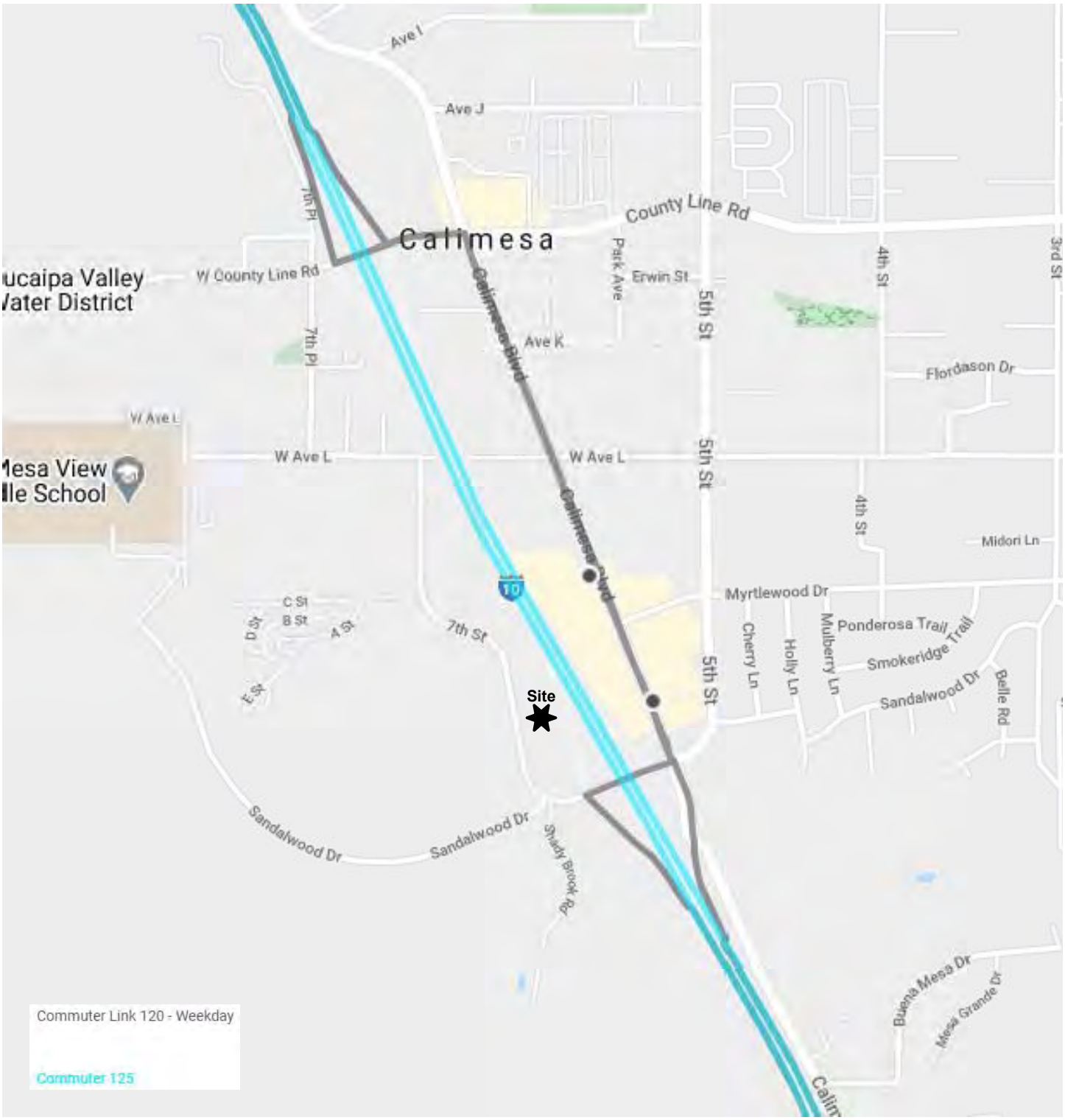


Figure 6
City of Beaumont Transit System Map

Source: City of Beaumont



Legend
- Sidewalk
- Cross Walk
- B Bus Stop

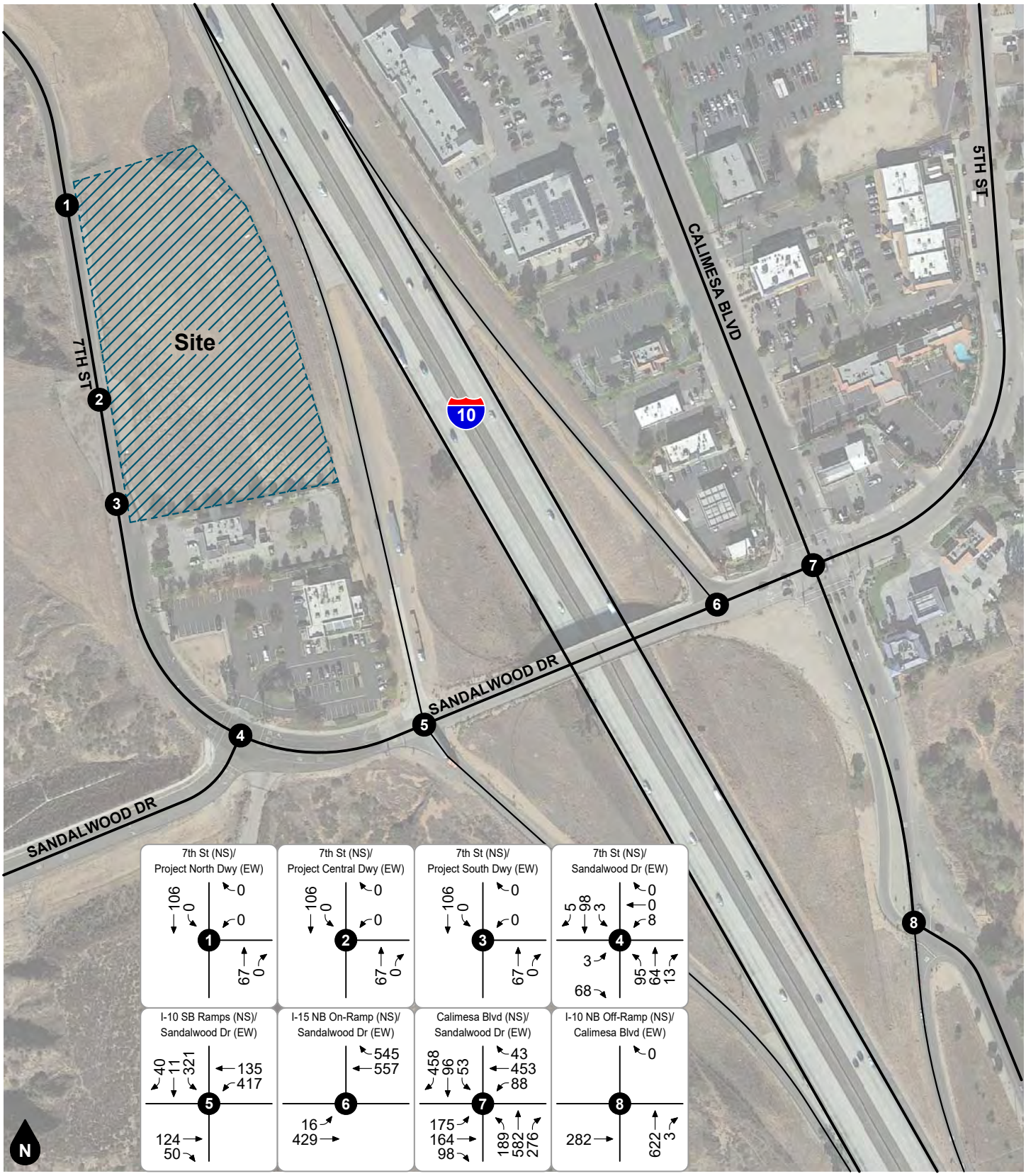
Figure 7
Existing Pedestrian Facilities



Legend

●## Vehicles Per Day (1,000's)

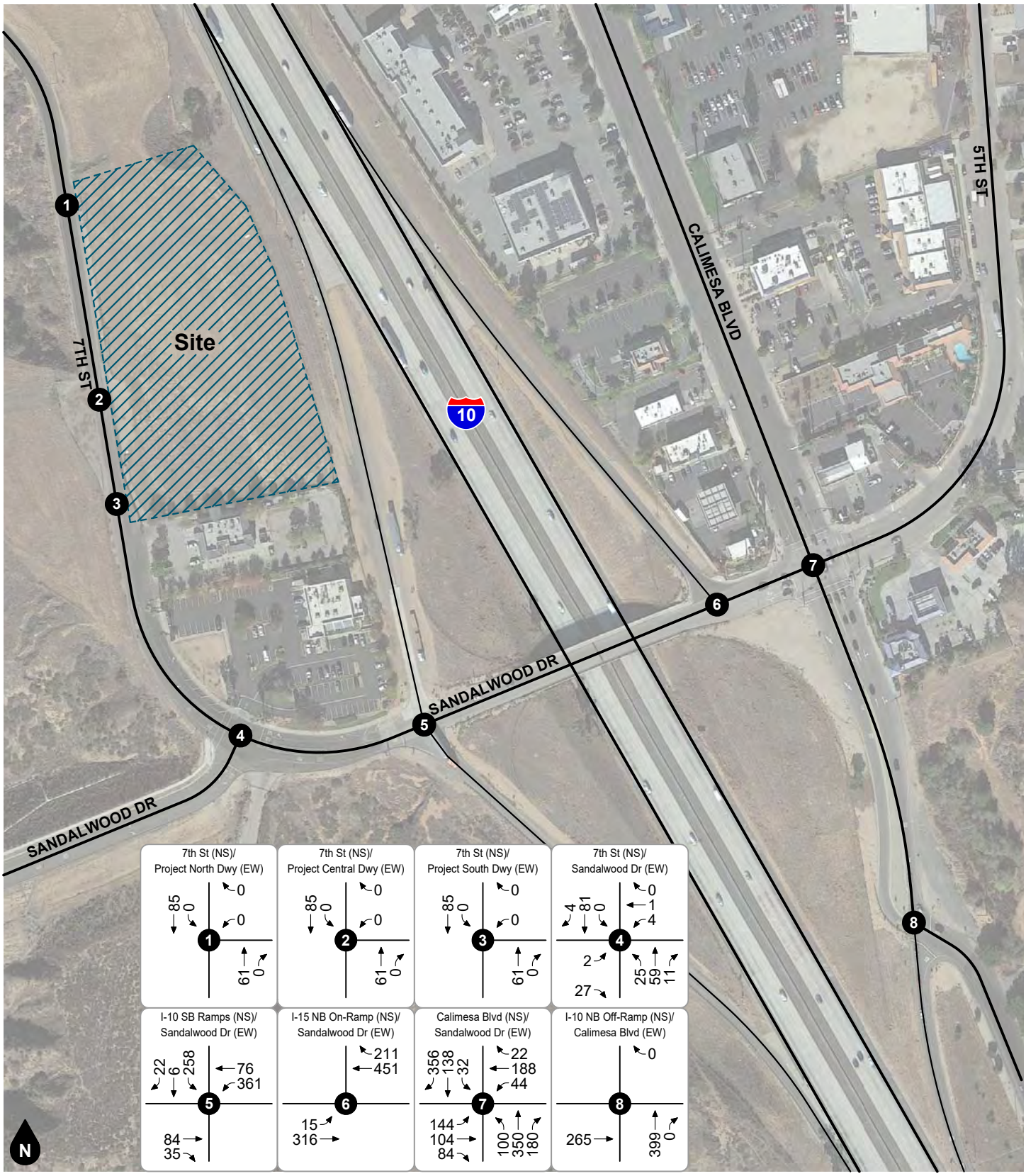
Figure 8
Existing Average Daily Traffic Volumes



Legend

(#) Study Intersection

Figure 9
Existing AM Peak Hour Intersection Turning Movement Volumes



Legend

(#) Study Intersection

Figure 10
Existing PM Peak Hour Intersection Turning Movement Volumes

4. PROJECT TRIP FORECASTS

This section describes how project trip generation, trip distribution and trip assignment forecasts were developed. The forecast project volumes are illustrated on figures contained in this section.

PROJECT TRIP GENERATION

Table 2 shows the project trip generation based upon rates obtained from Institute of Transportation Engineers (ITE) *Trip Generation Manual* (10th Edition, 2017). Trip generation rates were determined for daily trips, AM peak hour inbound and outbound trips, and PM peak hour inbound and outbound trips for the proposed land use. Trip generation rates for Land Use Code 853 – Convenience Market with Gasoline Pumps, Land Use Code 944 – Gasoline/Service Station, and Land Use Code 934 – Fast-Food Restaurant with Drive Through Window were used for the proposed project. The number of trips forecast to be generated by the proposed project are determined by multiplying the trip generation rates by the land use quantities.

As shown in Table 2, the proposed project is forecast to generate a total of approximately 3,693 daily trips, including 251 trips during the AM peak hour and 268 trips during the PM peak hour.

The total gross floor area for the convenience market and fast-food restaurant with drive-thru is 7,110 square feet. The convenience market is 3,849 square feet, the fast-food restaurant is 1,400 square feet, and the common area is 1,861 square feet. The common area consists of bathrooms, showers, laundry, storage, and a seating area for truckers. Approximately 80 percent of the common area has been allocated to the convenience center and 20 percent to the fast-food restaurant with drive-thru for trip generation purposes. Thus, the convenience market has been analyzed at 5,388 square feet and the fast-food restaurant with drive-thru has been analyzed at 1,772 square feet. For trip generation purposes, the convenience market would be shared by the standard gas station pumps and the diesel fueling facility pumps.

The trip generation forecast used for this analysis provides a very conservative estimate because the ITE trip generation rates for Land Use Code 944 represent the number of trips generated per vehicle fueling position at a standard passenger car fueling pump. ITE does not currently provide trip generation rates for a diesel fueling facility. In reality, the proposed diesel fueling stations are likely to have a much lower service rate due to longer fueling times and lower demand compared to passenger cars. Furthermore, the trip generation forecast does not include reductions for pass-by trips.

Land uses such as shopping centers, restaurants, gasoline stations, and convenience stores will often locate next to busy roadways to attract motorists already on the street. Since the trip generation rates contained in the ITE *Trip Generation Manual* represent vehicles entering and exiting at the site driveway(s), it is appropriate to reduce the initial trip generation forecast by the applicable pass-by trip rate when calculating the net new trips that will be added to the surrounding street system. This analysis applies a pass-by trip reduction for the convenience market/gas station land use based upon rates from the ITE *Trip Generation Handbook* (3rd Edition, 2017). Pass-by trip reductions were not applied in this analysis since 7th Street adjacent to the project site has minimal traffic volumes relative to the pass-by trip reduction that would be calculated based on ITE rates.

Traffic volumes shown in Table 2 consist of the total trips generated for each project land use. As a service station trip generated by the project may also interact with the restaurant land use within the project, a double counting of those trips occurs. To account for this internal interaction, the trips generated by the project site have been adjusted by 10 percent.

PROJECT TRIP DISTRIBUTION AND ASSIGNMENT

Figure 11 to Figure 14 show the forecast directional outbound and inbound distribution patterns for the project generated trips. The project trip distribution patterns are based on review of existing volume data, surrounding land uses and the local and regional roadway facilities in the project vicinity. Full access for the project site is proposed to 7th Street via three project driveways.

Based on the identified project trip generation and distributions, project average daily traffic volumes for Opening Year 2022 have been calculated and shown on Figure 15. Project AM and PM peak hour intersection turning movement volumes expected from the project are depicted on Figure 16 and Figure 17, respectively.

Table 2
Project Trip Generation

Trip Generation Rates									
			AM Peak Hour			PM Peak Hour			Daily
Land Use	Source[1]	Units[2]	% In	% Out	Rate	% In	% Out	Rate	Rate
Convenience Market with Gasoline Pumps	ITE 853	VFP	50%	50%	20.76	50%	50%	23.04	322.50
Diesel Fueling Facility/Gas Station	ITE 944	VFP	50%	50%	10.28	50%	50%	14.03	172.01
Fast-Food Restaurant with Drive-Thru	ITE 934	TSF	51%	49%	40.19	52%	48%	32.67	470.95

Trips Generated									
			AM Peak Hour			PM Peak Hour			
Land Use	Quantity	Units[2]	In	Out	Total	In	Out	Total	Daily
Convenience Market with Gasoline Pumps[3]	8	VFP	83	83	166	92	92	184	2,580
Diesel Fueling Facility/Gas Station[4]	4	VFP	21	21	42	28	28	56	688
Fast-Food Restaurant with Drive-Thru	1.772	TSF	36	35	71	30	28	58	835
Subtotal			140	139	279	150	148	298	4,103
Internal Capture (10%)[5]			*-14*	*-14*	*-28*	*-15*	*-15*	*-30*	*-410*
Total			126	125	251	135	133	268	3,693

Notes:

(1) ITE = Institute of Transportation Engineers *Trip Generation Manual* (10th Edition, 2017); ### = Land Use Code

(2) VFP = Vehicle Fueling Positions; TSF = Thousand Square Feet

(3) The total gross floor area for the convenience market and fast-food restaurant with drive-thru is 7,110 square feet. The convenience market is 3,849 square feet, the fast-food restaurant is 1,400 square feet, and the common area is 1,861 square feet. The common area consists of bathrooms, showers, laundry, storage, and a seating area for truckers. 80 percent of the common area has been allocated to the convenience center and 20 percent to the fast-food restaurant with drive-thru for trip generation purposes. Thus, the convenience market has been analyzed at 5,388 square feet and the fast-food restaurant with drive-thru has been analyzed at 1,772 square feet. For trip generation purposes, the convenience market would be shared by the standard gas station pumps and the diesel fueling facility pumps.

(4) A passenger car equivalent (PCE) is a metric to assess the impact of larger vehicles, such as trucks, recreational vehicles, and buses, by converting the traffic volume of larger vehicles to an equivalent number of passenger cars. In consultation with City of Calimesa staff, the passenger car equivalent for a Semi-Truck/RV using the Diesel fueling facility would be 3.0. Thus, each trip generated by the Diesel fueling facility would be equivalent to 3 passenger cars.

However, it is important to note that the trip generation used in this report for the Diesel fueling facility is a very conservative estimate because the ITE trip generation rates for Land Use Code 944 represent the number of trips generated per vehicle fueling position at a standard passenger car fueling pump. ITE does not currently provide trip generation rates for a Diesel fueling facility In reality, the proposed Diesel fueling stations are likely to have a much lower service rate due to longer fueling times and lower demand compared to passenger cars. Furthermore, the trip generation forecast does not include reductions for pass-by trips.

For these reasons, the passenger car equivalent of 3.0 was not applied to the trip generation for the Diesel fueling facility.

(5) An internal capture of 10% was applied to account for interaction between the land uses.



Legend

10% Percent From Project

Figure 11
Project Outbound Trip Distribution - Gas Station/Restaurant



Legend

10% Percent To Project

Figure 12
Project Inbound Trip Distribution - Gas Station/Restaurant



Legend

10% Percent From Project

Figure 13
Project Outbound Trip Distribution - Diesel Fueling Facility



Legend

10% Percent To Project

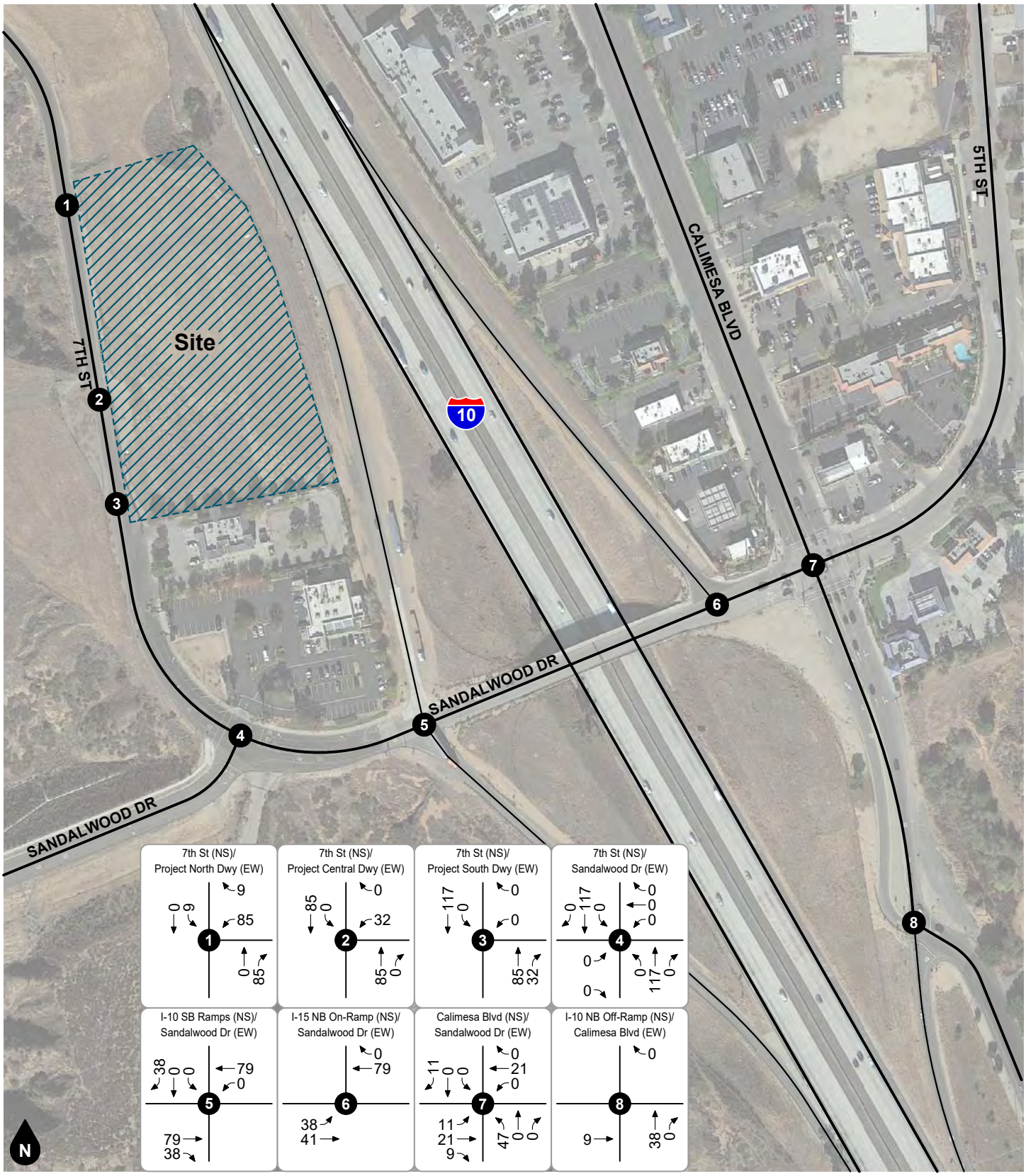
Figure 14
Project Inbound Trip Distribution - Diesel Fueling Facility



Legend

●## Vehicles Per Day (1,000's)

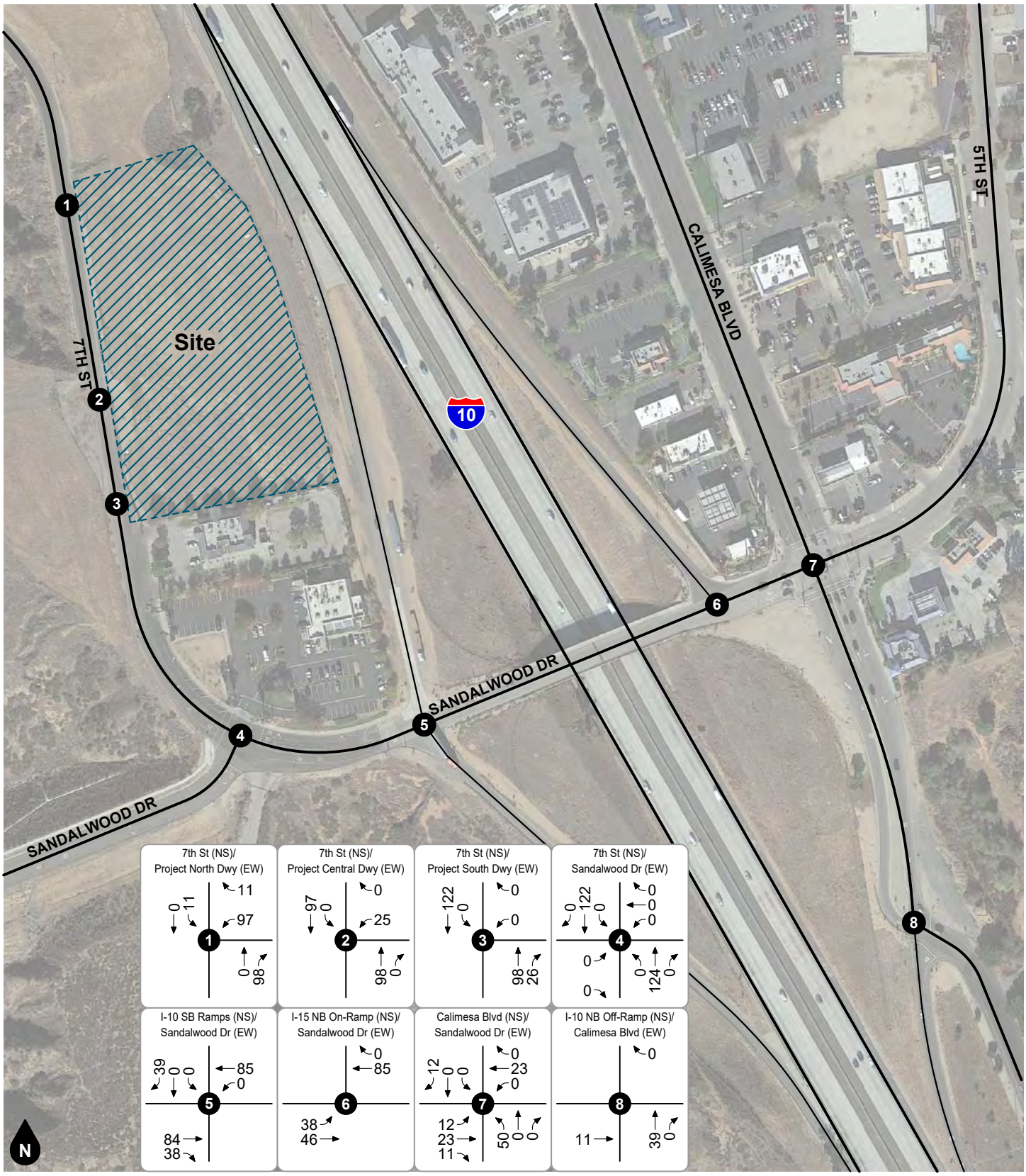
Figure 15
Project Average Daily Traffic Volumes



Legend

(#) Study Intersection

Figure 16
Project AM Peak Hour Intersection Turning Movement Volumes



Legend

(#) Study Intersection

Figure 17
Project PM Peak Hour Intersection Turning Movement Volumes

5. FUTURE VOLUME FORECASTS

This section describes how future volume forecasts for each analysis scenario were developed. Forecast study area volumes are illustrated on figures contained in this section.

CUMULATIVE TRIPS

Ambient Growth Rate

To account for ambient growth on roadways, existing roadway volumes were increased by a growth rate of two percent (2%) per year over two years for Opening Year (2022) conditions. This equates to a total growth factor of approximately 1.04. The ambient growth rate was conservatively applied to all movements at the study intersections.

Other Development

To account for trips generated by future development, trips generated by pending or approved other development projects in the project vicinity were added to the study area. Table 3 shows the trip generation summary for other development projects and Figure 18 shows the other development location map.

Figure 19 shows the forecast average daily traffic volumes for the other development for Opening Year conditions. Figure 20 and Figure 21 show the forecast AM and PM peak hour intersection turning movement volumes for trips generated by other developments.

The information for other development was provided by the City of Calimesa and City of Yucaipa.

ANALYSIS SCENARIO VOLUME FORECASTS

Background Conditions

To develop Background Conditions volume forecasts, Existing volumes were combined with ambient growth and other development. Background Conditions average daily traffic volumes are shown on Figure 22. Background Conditions AM and PM peak hour intersection turning movement volumes are shown on Figure 23 and Figure 24.

Background Conditions Plus Project

Background Conditions Plus Project volume forecasts were developed by adding project trips to the Background Conditions forecast. Background Conditions Plus Project average daily traffic volumes are shown on Figure 25. Background Conditions Plus Project AM and PM peak hour intersection turning movement volumes are shown on Figure 26 and Figure 27.

Table 3
Other Development Trip Generation

Project Name	Land Use	Quantity	Units[1]	Trips Generated[2]						
				AM Peak Hour			PM Peak Hour			
				In	Out	Total	In	Out	Total	Daily
Summerwind Specific Plan[3]	Single-Family Detached Residential	600	DU	111	333	444	374	220	594	5,664
Heritage Oaks Specific Plan	Single-Family Detached Residential	45	DU	8	25	33	28	16	44	425
Singleton Heights	Single-Family Detached Residential	38	DU	7	21	28	24	14	38	359
JP Ranch[4]	Single-Family Detached Residential	121	DU	22	67	89	75	44	119	1,142
76/Circle K Fuel Station & C-Store[5]	Mixed-Use	--	--	79	66	145	73	69	142	2,836
RV Fueling Facility/Gas Station[6]	Mixed-Use	--	--	151	146	297	87	87	174	2,977
B&H Fuel Station & C-Store	Service Station w/ Convenience Market	8	VFP	51	49	100	57	55	112	1,643
	- Pass-By Reduction (62% AM, 56% PM)			-32	-30	-62	-32	-31	-63	-125
	Subtotal			19	19	38	25	24	49	1,518
18-121/CUP	Commercial Flex	37.211	TSF	9	6	15	7	8	15	463
17-103/CUP	Car Wash	1	ST	18	18	36	41	41	82	900
17-118/LUCR	Senior Attached Housing	96	DU	7	12	19	14	11	25	355
17-024/GPA/TTM 20040	Single-Family Detached Residential	29	DU	5	16	21	18	11	29	274
15-048/CUP/TTM 18167	Condominiums	57	DU	6	20	26	20	12	32	417
16-026/CUP. 15-137/ARC/TTM 17725	Condominiums	108	DU	11	38	49	38	22	60	791
14-151/CUP/ARC	Apartments	18	DU	2	6	8	6	4	10	132
17-089/LUCR	Duplex	2	DU	0	1	1	1	0	1	15
17-012/CUP	Multi-Family	14	DU	1	5	6	5	3	8	102
16-117/TTM 20031/CUP	Condominiums	68	DU	7	24	31	24	14	38	498
16-144/TTM 20066	Single-Family Detached Residential	18	DU	3	10	13	11	7	18	170
TTM 20252	Single-Family Detached Residential	13	DU	2	7	9	8	5	13	123
TTM 20263	Multi-Family	108	DU	11	38	49	38	22	60	791
20-118/CUP	Senior Housing	16	DU	1	2	3	2	2	4	59
20-088/LUCR	Multi-Family	3	DU	0	1	1	1	1	2	22
20-047/TPM	Single-Family Detached Residential	4	DU	1	2	3	2	1	3	38
20-046/TPM	Single-Family Detached Residential	4	DU	1	2	3	2	1	3	38
19-145/LUCR	Multi-Family	17	DU	2	6	8	6	4	10	124
Mesa Verde Specific Plan (Phase 1A)[7]	Single-Family Detached Residential	226	DU	42	125	167	141	83	224	2,133
Total				526	1,016	1,542	1,071	726	1,797	22,366

Notes:
(1) DU = Dwelling Units; VFP = Fueling Positions; TSF = Thousand Square Feet; ST = Site

(2) Based on trip generation and pass-by rates from:
Institute of Transportation Engineers, Trip Generation Manual, 10th Edition, 2017;
Institute of Transportation Engineers, Trip Generation Handbook, 3rd Edition, 2017;
San Diego Association of Governments, Brief Guide of Vehicular Traffic Generation Rates for San Diego Region, April 2002.

(3) Summerwind Ranch Traffic Impact Analysis (Revised), Urban Crossroads, Inc. (December 16, 2004).

(4) JP Ranch Traffic Impact Analysis, Kunzman Associates, Inc. (March 12, 2013).

(5) Calimesa - County Line Project Traffic Impact Analysis (Revised), Kunzman Associates, Inc., (May 17, 2017).

(6) 7th Street & County Line Road RV Fueling & Retail Project Traffic Impact Analysis, Ganddini Group, Inc., (July 29, 2020).

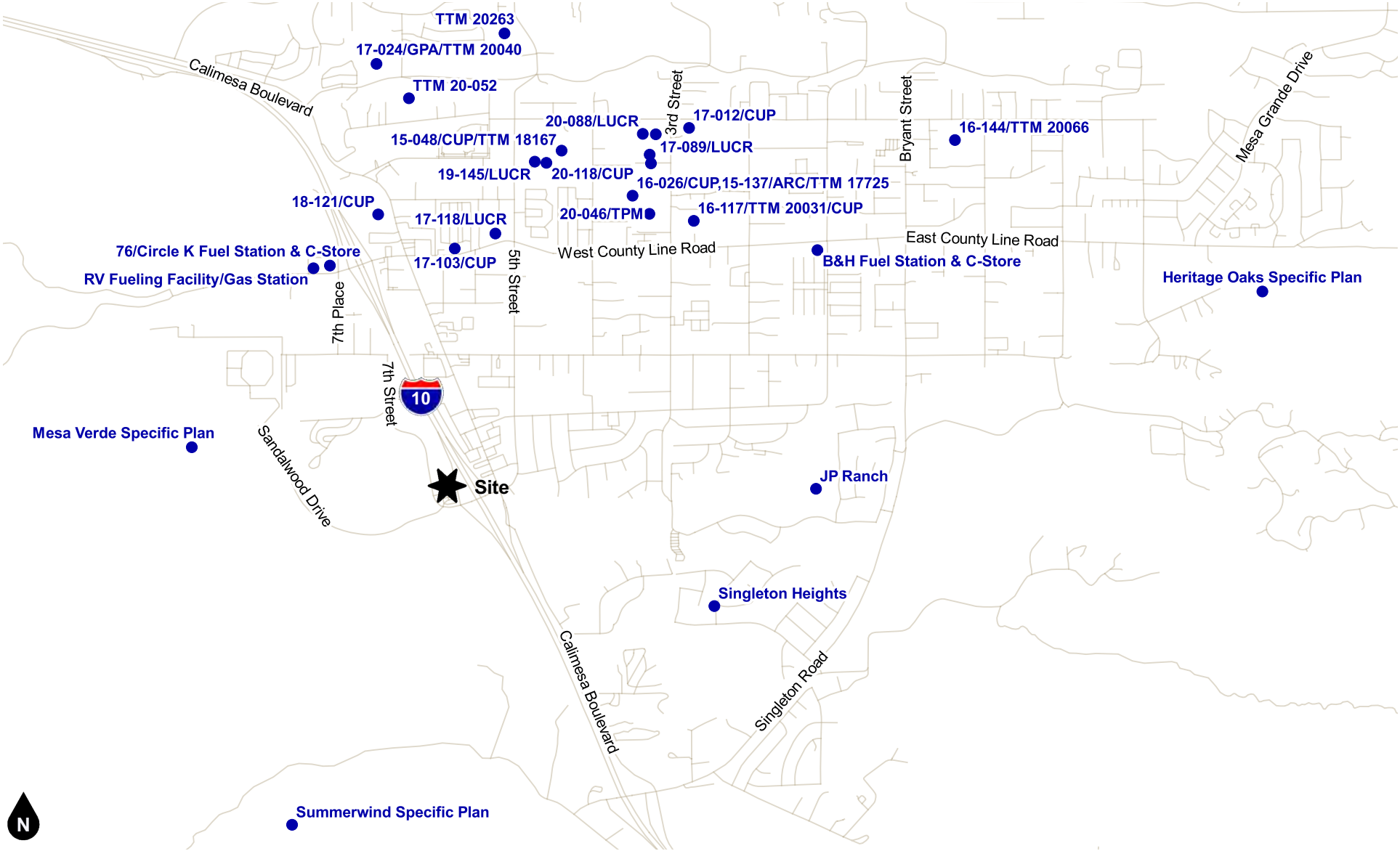


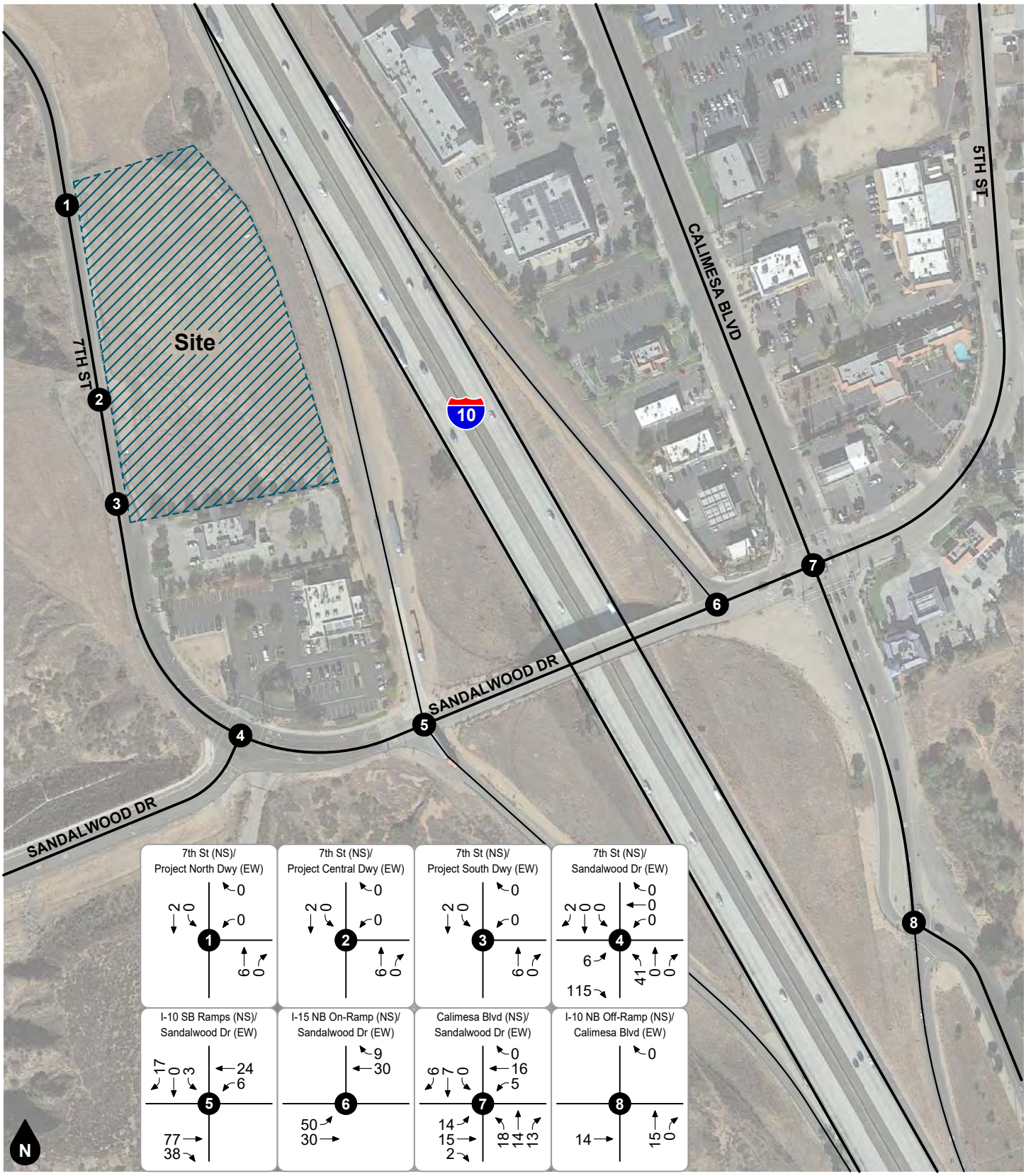
Figure 18
Other Development Location Map



Legend

●## Vehicles Per Day (1,000's)

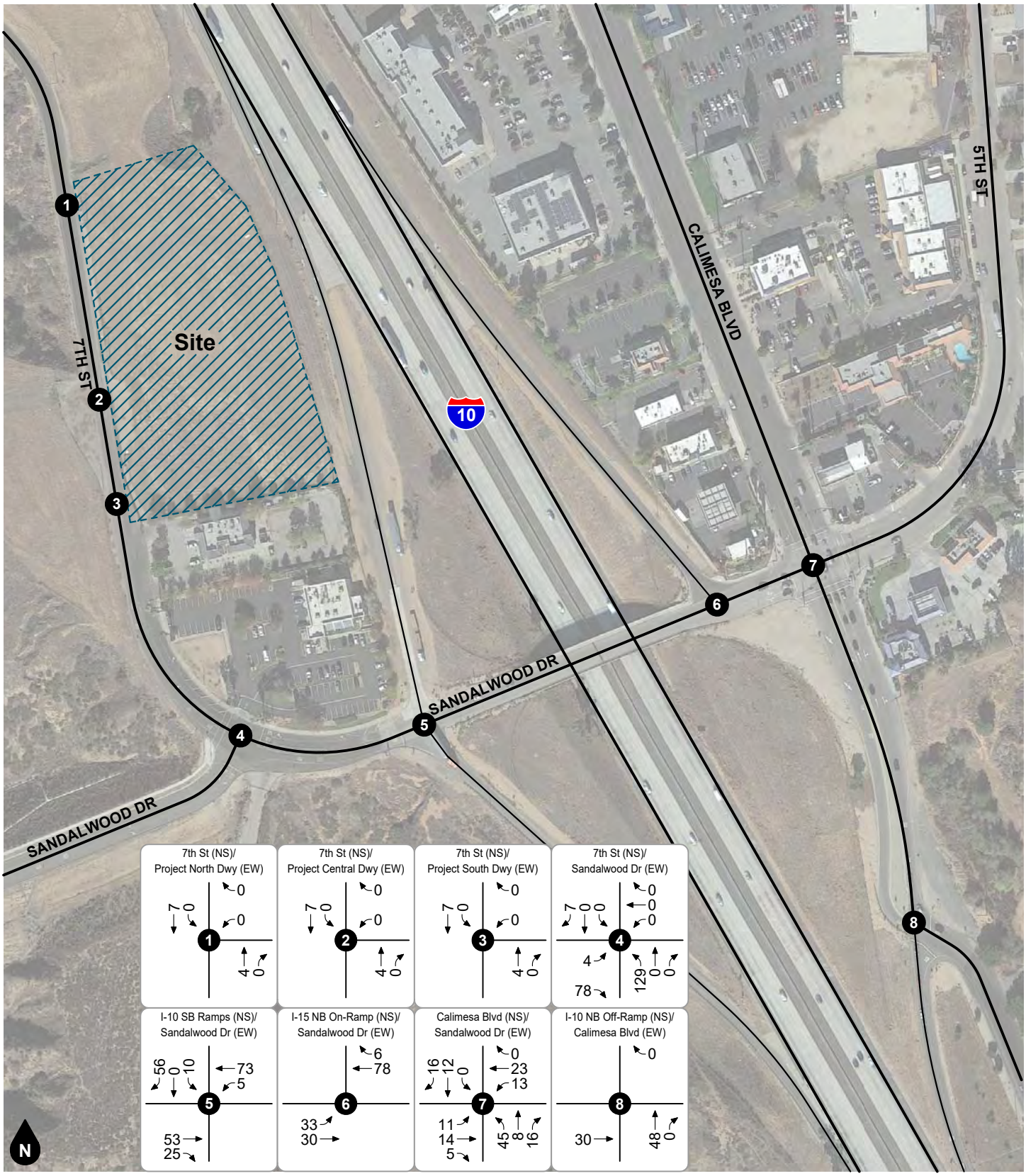
Figure 19
Other Development Average Daily Traffic Volumes



Legend

(#) Study Intersection

Figure 20
Other Development
AM Peak Hour Intersection Turning Movement Volumes



Legend

(#) Study Intersection

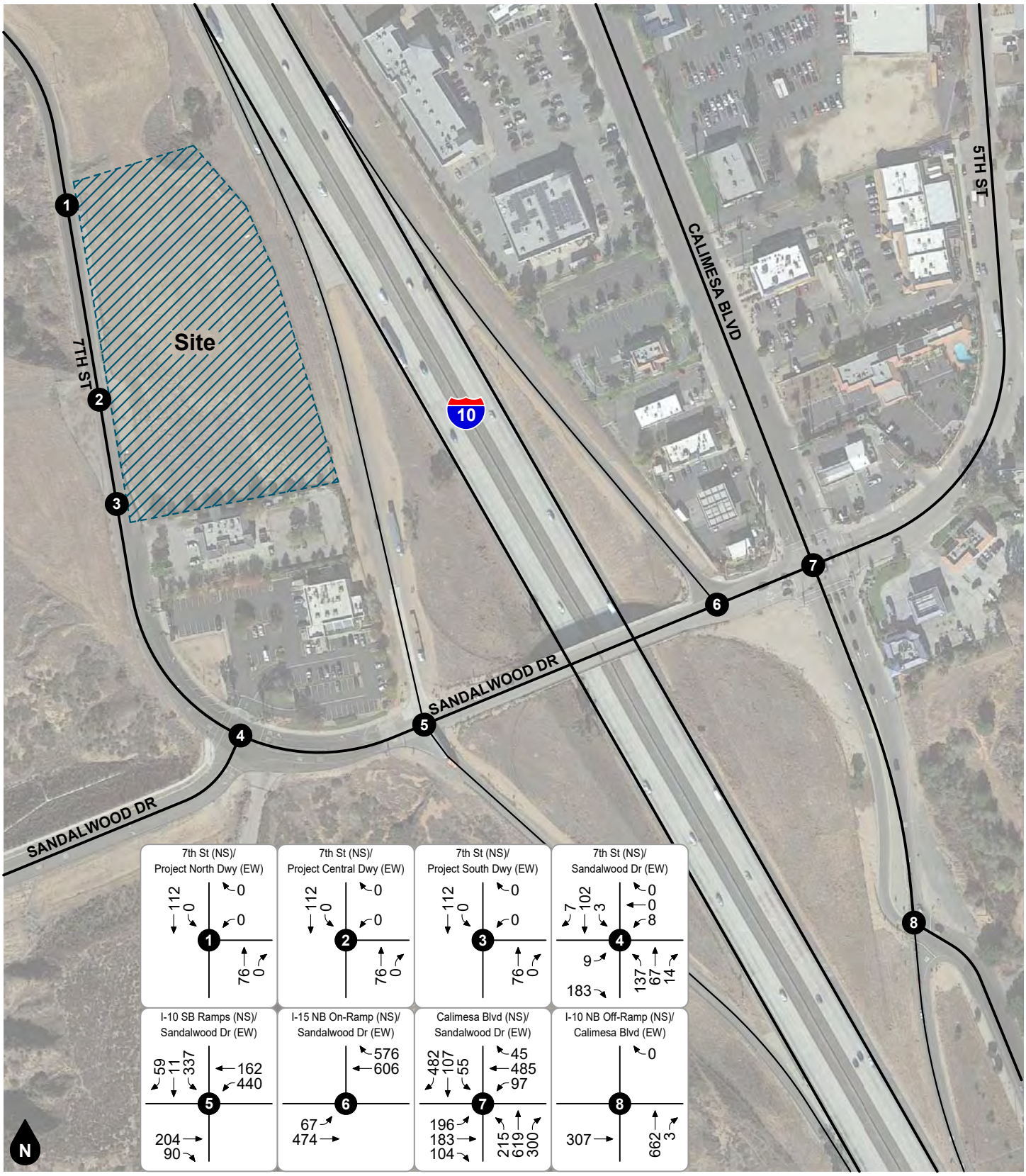
Figure 21
Other Development
PM Peak Hour Intersection Turning Movement Volumes



Legend

●## Vehicles Per Day (1,000's)

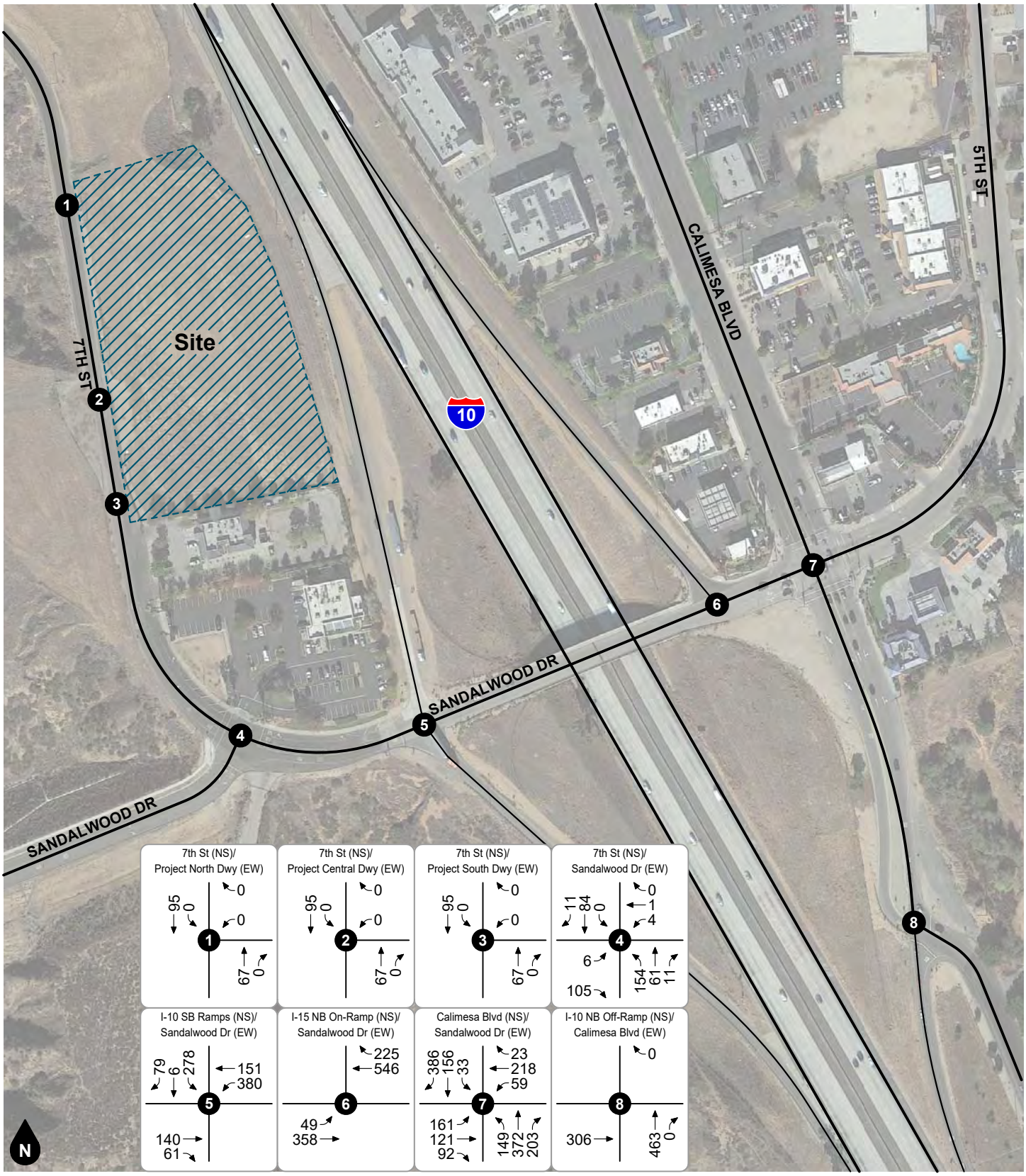
Figure 22
Background Conditions Average Daily Traffic Volumes



Legend

(#) Study Intersection

Figure 23
Background Conditions
AM Peak Hour Intersection Turning Movement Volumes



Legend

(#) Study Intersection

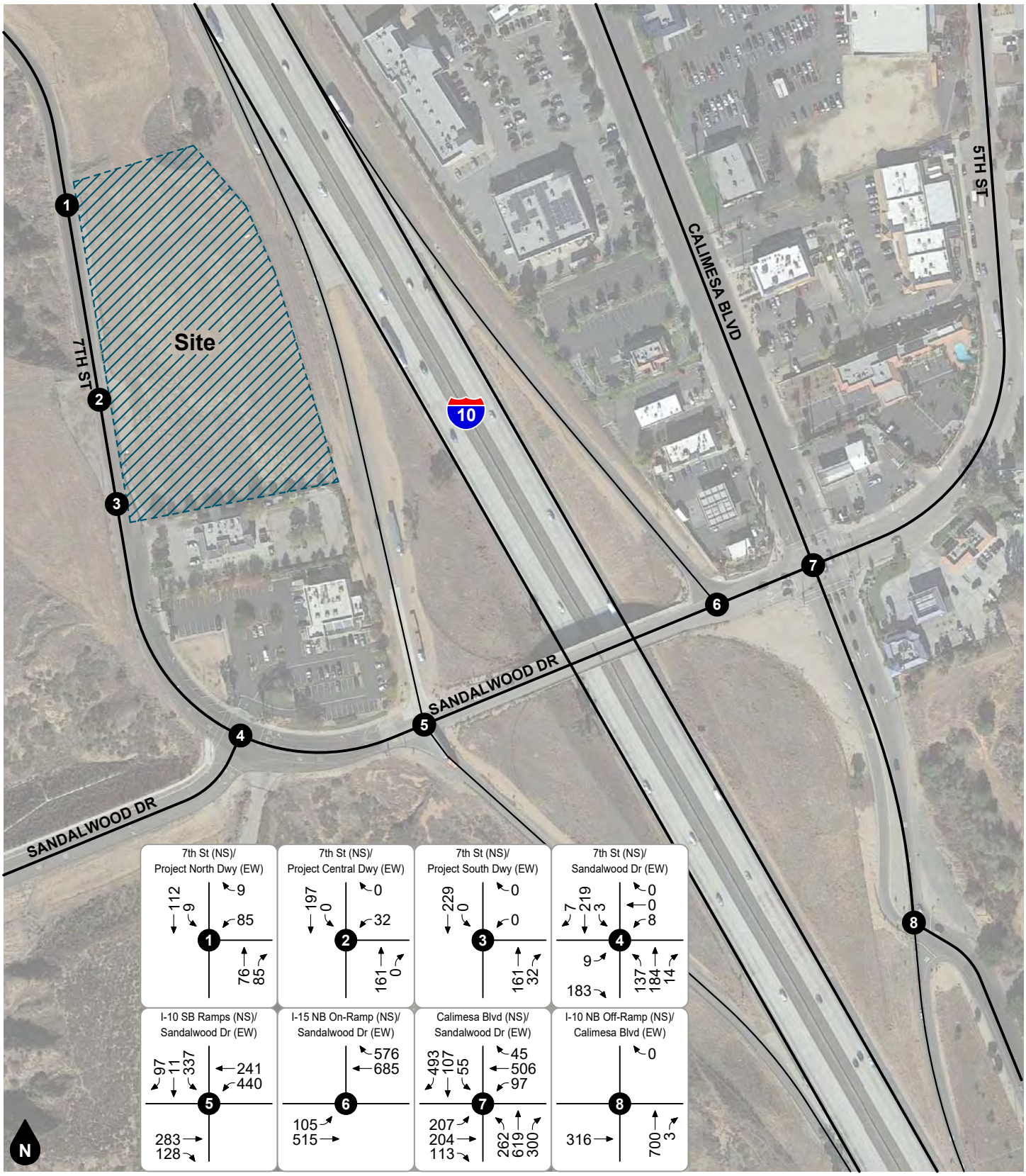
Figure 24
Background Conditions
PM Peak Hour Intersection Turning Movement Volumes



Legend

●## Vehicles Per Day (1,000's)

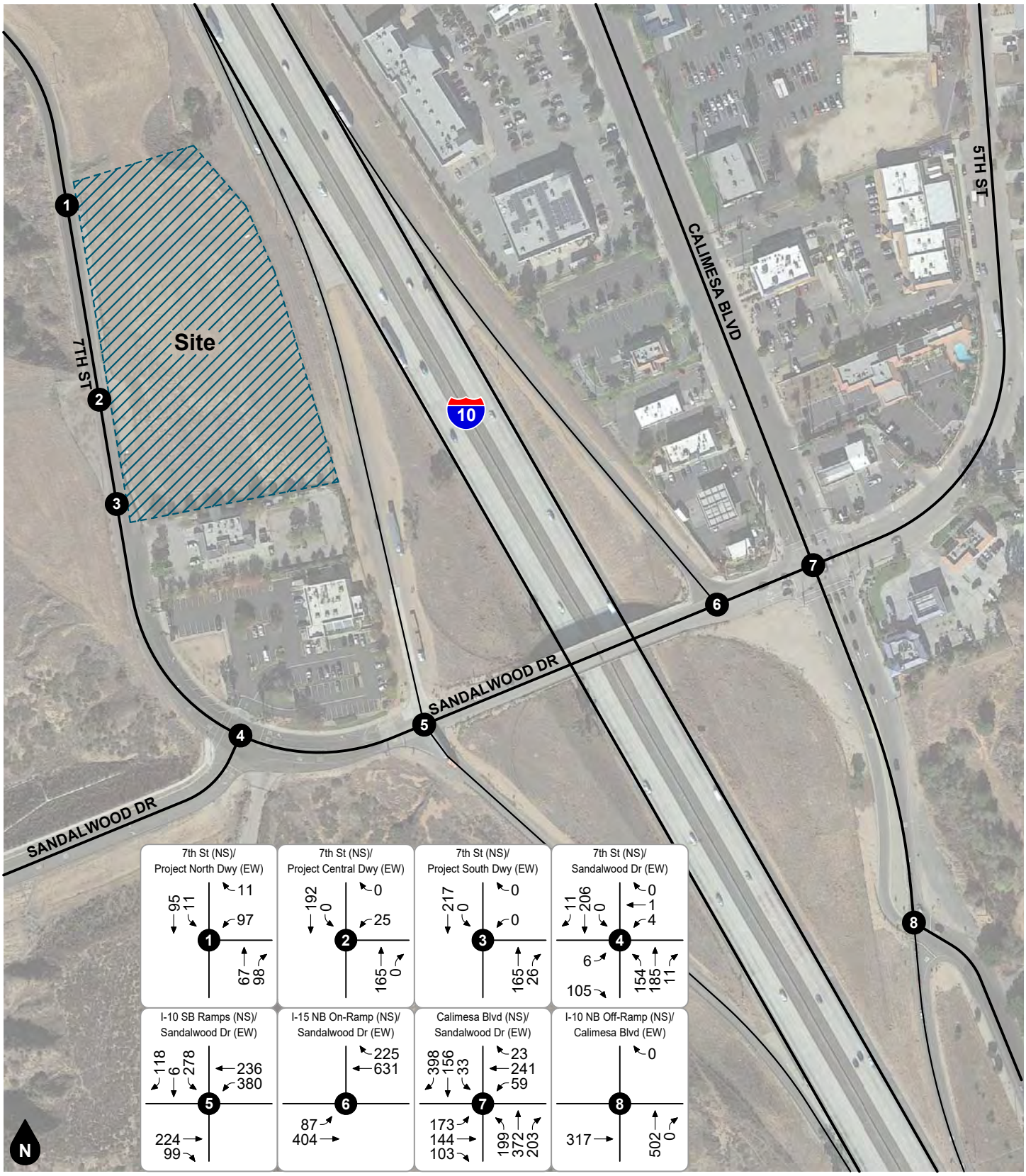
Figure 25
Background Conditions Plus Project Average Daily Traffic Volumes



Legend

(#) Study Intersection

Figure 26
Background Conditions Plus Project
AM Peak Hour Intersection Turning Movement Volumes



Legend

(#) Study Intersection

Figure 27
Background Conditions Plus Project
PM Peak Hour Intersection Turning Movement Volumes

6. FUTURE OPERATIONAL ANALYSIS

Detailed intersection Level of Service calculation worksheets for each of the following analysis scenarios are provided in Appendix D.

BACKGROUND CONDITIONS

The intersection Levels of Service for Background Conditions are shown in Table 4. As shown in Table 4, the study intersections are forecast to operate within acceptable Levels of Service (D or better) during the peak hours for Background Conditions.

BACKGROUND CONDITIONS PLUS PROJECT

The intersection Levels of Service for Background Conditions Plus Project are shown in Table 5. As shown in Table 5, the study intersections are forecast to operate within acceptable Levels of Service (D or better) during the peak hours for Background Conditions Plus Project.

Table 4
Background Conditions Intersection Levels of Service

Study Intersection	Traffic Control[1]	AM Peak Hour		PM Peak Hour	
		Delay[2]	LOS[3]	Delay[2]	LOS[3]
4. 7th St at Sandalwood Dr	AWS	9.3	A	9.0	A
5. I-10 SB Ramps at Sandalwood Dr	AWS	17.5	C	13.7	B
6. I-10 NB On-Ramp at Sandalwood Dr	UN	11.9	B	9.5	A
7. Calimesa Blvd at Sandalwood Dr	TS	27.4	C	20.5	C
8. I-10 NB Off-Ramp at Calimesa Blvd	AWS	23.1	C	10.5	B

Notes:

(1) AWS = All Way Stop; UN = Uncontrolled; TS = Traffic Signal

(2) Delay is shown in seconds/vehicle. For intersections with traffic signal or all way stop control, overall average intersection delay and LOS are shown. For intersections with cross street stop control, LOS is based on average delay of the worst individual lane (or movements sharing a lane).

(3) LOS = Level of Service

Table 5
Background Conditions Plus Project Intersection Levels of Service

	Study Intersection	Traffic Control[1]	AM Peak Hour		PM Peak Hour	
			Delay[2]	LOS[3]	Delay[2]	LOS[3]
1.	7th St at Project North Dwy	CSS	10.6	B	10.6	B
2.	7th St at Project Central Dwy	CSS	10.9	B	10.8	B
3.	7th St at Project South Dwy	CSS	0.0	A	0.0	A
4.	7th St at Sandalwood Dr	AWS	11.0	B	10.4	B
5.	I-10 SB Ramps at Sandalwood Dr	AWS	25.4	D	17.7	C
6.	I-10 NB On-Ramp at Sandalwood Dr	UN	13.1	B	10.2	B
7.	Calimesa Blvd at Sandalwood Dr	TS	28.6	C	21.4	C
8.	I-10 NB Off-Ramp at Calimesa Blvd	AWS	32.0	D	11.3	B

Notes:

(1) CSS = Cross Street Stop; AWS = All Way Stop; UN = Uncontrolled; TS = Traffic Signal

(2) Delay is shown in seconds/vehicle. For intersections with traffic signal or all way stop control, overall average intersection delay and LOS are shown. For intersections with cross street stop control, LOS is based on average delay of the worst individual lane (or movements sharing a lane).

(3) LOS = Level of Service

7. SITE ACCESS & CIRCULATION

This section includes a description of project improvements necessary to provide site access and an evaluation of site access and circulation.

PROJECT DESIGN FEATURES

The proposed project shall construct the following improvements to provide project site access:

- Construct the 7th Street (NS) at Project North Driveway (EW) to provide one inbound lane and one outbound lane with westbound stop-control and the following lane configurations:
  - Northbound: one shared through/right turn lane;
  - Southbound: one shared left/through lane; and
  - Westbound: one shared left/right turn lane.

- Construct the 7th Street (NS) at Project Central Driveway (EW) to provide one outbound lane with westbound stop-control and the following lane configurations:
  - Northbound: one through lane;
  - Southbound: one through lane; and
  - Westbound: one shared left/right turn lane.
  - On-site signage and pavement markings for this outbound only project driveway should be included in the final site design to the satisfaction of the City of Calimesa Department of Public Works.

- Construct the 7th Street (NS) at Project South Driveway (EW) to provide one inbound lane and the following lane configurations:
  - Northbound: one shared through/right turn lane; and
  - Southbound: one shared left/through lane.
  - On-site signage and pavement markings for this inbound only project driveway should be included in the final site design to the satisfaction of the City of Calimesa Department of Public Works.

This analysis also assumes the project shall comply with the following conditions as part of the City of Calimesa standard development review process:

- A construction work site traffic control plan shall comply with State standards set forth in the California Manual of Uniform Traffic Control Devices and shall be submitted to the City for review and approval prior to the issuance of a grading permit or start of construction. The plan shall identify any roadway, sidewalk, bike route, or bus stop closures and detours as well as haul routes and hours of operation. All construction related trips shall be restricted to off-peak hours to the extent possible.

- All on-site and off-site roadway design, traffic signing and striping, and traffic control improvements relating to the proposed project shall be constructed in accordance with applicable State/Federal engineering standards and to the satisfaction of the City of Calimesa.

- Site-adjacent roadways shall be constructed or repaired at their ultimate half-section width, including landscaping and parkway improvements in conjunction with development, or as otherwise required by the City of Calimesa.

- Adequate off-street parking shall be provided to the satisfaction of City of Calimesa.

- The final grading, landscaping, and street improvement plans should demonstrate that sight distance standards are met in accordance with applicable City of Calimesa/California Department of Transportation sight distance standards.

SIGHT DISTANCE ANALYSIS

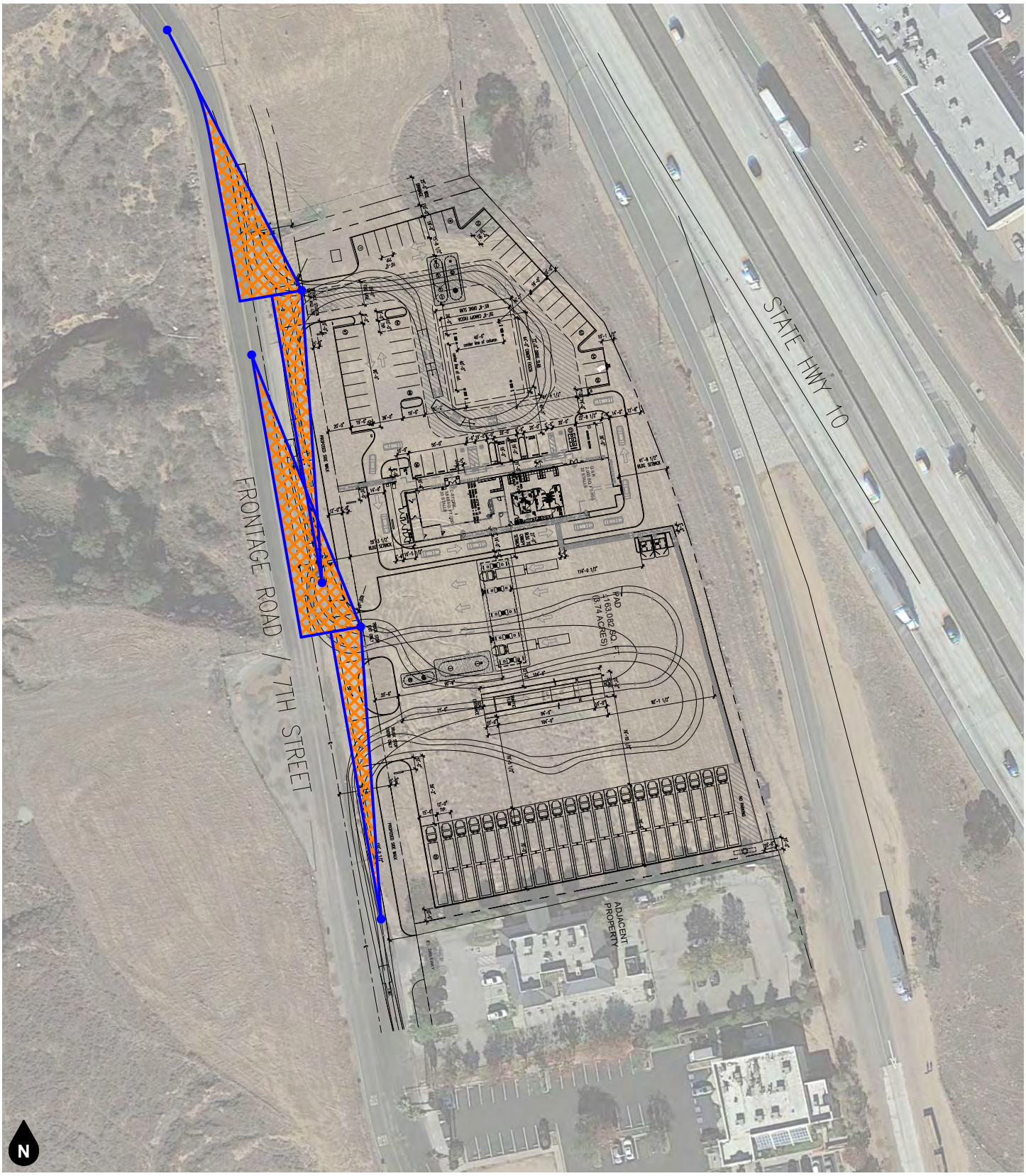
The design speed along 7th Street adjacent to the project is 35 miles per hour according to the City of Calimesa Public Works Department staff and will be posted as such with a speed zone adoption. The stopping sight distance minimum is 250 feet per Table 201.1 in the Highway Design Manual (see Appendix F).

Figure 28 illustrates the stopping sight distance for 7th Street. Stopping sight distance requires 250 feet of unobstructed line of sight for a 35 mile per hour design speed on 7th Street. The driver's eye for a vehicle located at a Project Driveway intending to head either northbound or southbound on 7th Street is situated 42 inches above the pavement and 15 feet back from the edge of the travel way. The driver must have a minimum unobstructed sight line of 250 feet looking northbound at an object 42 inches above the pavement situated in the center of the southbound travel lane and must have a minimum unobstructed sight line of 300 feet looking southbound at an object 42 inches above the pavement situated in the center of the northbound travel lane.

7th Street and the surrounding terrain at and adjacent to the project site is relatively flat with minimal changes in gradient. Therefore, vertical sight distance concerns do not appear to be prevalent.

TRUCK TURNING TEMPLATES

Truck turning templates are shown on the site plan in Figure 2. These truck turning templates show vehicles entering and exiting the project driveways northbound on 7th Street, while circulating internally within the project site.



Legend

Stopping Sight Distance 250 Feet (35MPH)

Restricted Use Area

Figure 28
Sight Distance Analysis

8. OTHER CONSIDERATIONS

VMT Analysis

A VMT analysis was conducted for this project and included in Appendix G. As shown in Appendix G, the proposed project satisfies the City-established VMT screening criteria for low VMT area and project type screening; therefore, the project may be presumed to result in a less than significant VMT impact and no further analysis is required.

Addendum to Traffic Impact Analysis

Appendix I includes an accepted addendum to the traffic impact analysis which addresses comments made by City of Calimesa staff regarding this traffic impact analysis.

9. BUILDOUT YEAR 2040 ANALYSIS

A Buildout Year 2040 analysis was conducted for this project. The Cumulative No Project and Cumulative Plus Project scenarios reflect this buildout analysis. While the *Final City of Calimesa Transportation Impact Analysis Guidelines for Vehicle Miles Traveled and Level of Service Assessment* (May 2020) includes a buildout analysis under "analysis scenarios" for LOS assessment, buildout analysis is not typically required unless the project "proposes a General Plan Amendment to the Land Use or Circulation Element, Specific Plan, Zone Change, or other that increase traffic beyond what was approved in the General Plan" as specified in the *Transportation Analysis Guidelines for Level of Service Vehicle Miles Traveled*, September 2020 (County of Riverside Transportation Department). The proposed development does not propose an action that would increase traffic beyond what was approved in the General Plan.

Therefore, this section is provided for conformance with City of Calimesa TIA guidelines, but it is recommended that this section of the TIA be used for informational purposes only and not for purposes related to LOS deficiencies and operational improvements imposition.

BUILDOUT ROADWAY NETWORK

Figure 29 shows the lane geometry and intersection controls at the study area intersections expected to be constructed and operational by Buildout Year 2040. These lane geometrics and intersection controls are consistent with the Buildout Year (2035) recommended improvements from the *Mesa Verde Estates Focused Traffic Study* (Urban Crossroads, October 10, 2016). These improvements include all phases of the Mesa Verde Estates Specific Plan Project, which is anticipated for completion in year 2035. These improvements also include reconfiguration of the I-10 Freeway at Sandalwood Drive interchange. Appendix H includes the buildout lane geometrics and intersection controls assumptions from the *Mesa Verde Estates Focused Traffic Study*.

CUMULATIVE TRIPS

Other Development

To account for trips generated by future development, including full buildout of the Mesa Verde Estates Specific Plan, the AM and PM peak hour intersection turning movement volumes from the "Phase 3B - Buildout (2035) Existing Plus Ambient Growth Plus Cumulative Plus Project Traffic Volumes (Exhibit 11-2" from the *Mesa Verde Estates Focused Traffic Study* were used for baseline Cumulative No Project traffic volumes. These forecasts include ambient growth, other development, and the Mesa Verde Estates Specific Plan at full buildout. Appendix H includes these AM and PM peak hour intersection turning movement volumes.

Ambient Growth Rate

To account for ambient growth on roadways, the aforementioned intersection turning movement volumes were increased by a growth rate of one percent (1%) per year over five years to account for the five-year gap between the Buildout Year (2035) analysis conducted for the Mesa Verde Estates Specific Plan project and current Buildout Year 2040 conditions. This equates to a total growth factor of approximately 1.05. The ambient growth rate was conservatively applied to all movements at the study intersections.

Although Buildout Year forecasts account for ultimate growth within a given area based on the General Plan, the Buildout Year is routinely updated every few years and forecasts refined. While it is not anticipated that the Buildout Year (2035) traffic volumes from the aforementioned traffic study would not also be indicative of Buildout Year 2040 traffic volumes, this annual ambient growth rate of one percent (1%) per year over five years was applied to provide for a conservative analysis.

Analysis Scenario Volume Forecasts

Cumulative No Project Conditions

To develop Cumulative No Project volume forecasts, traffic volumes as previously described in this section were combined with ambient growth. Cumulative No Project average daily traffic volumes are shown on Figure 30. Cumulative No Project AM and PM peak hour intersection turning movement volumes are shown on Figure 31 and Figure 32.

Cumulative Plus Project Conditions

To develop Cumulative Plus Project volume forecasts, traffic volumes as previously described in this section were combined with ambient growth. Cumulative Plus Project average daily traffic volumes are shown on Figure 33. Cumulative Plus Project AM and PM peak hour intersection turning movement volumes are shown on Figure 34 and Figure 35.

Buildout Year 2040 Operational Analysis

Detailed intersection Level of Service calculation worksheets for each of the following analysis scenarios are provided in Appendix H.

Cumulative No Project Conditions

The intersection Levels of Service for Cumulative No Project Conditions are shown in Table 6. As shown in Table 6, the study intersections are forecast to operate within acceptable Levels of Service (D or better) during the peak hours for Cumulative No Project Conditions.

Cumulative Plus Project Conditions

The intersection Levels of Service for Cumulative Plus Project Conditions are shown in Table 7. As shown in Table 7, the study intersections are forecast to operate within acceptable Levels of Service (D or better) during the peak hours for Cumulative Plus Project Conditions.

Operational Improvements

No operational improvements are recommended for Cumulative Plus Project conditions beyond the recommended improvements used for the Cumulative No Project scenario, as specified in Buildout Year (2035) recommended improvements from the *Mesa Verde Estates Focused Traffic Study*.

Table 6
Cumulative No Project Intersection Levels of Service

Study Intersection	Traffic Control[1]	AM Peak Hour		PM Peak Hour	
		Delay[2]	LOS[3]	Delay[2]	LOS[3]
4. 7th St at Sandalwood Dr	TS	1.9	A	4.7	A
5. I-10 SB Ramps at Sandalwood Dr	TS	19.3	B	20.9	C
6. I-10 NB On-Ramp at Sandalwood Dr	UN	0.0	A	0.0	A
7. Calimesa Blvd at Sandalwood Dr	TS	27.9	C	43.0	D
8. I-10 NB Off-Ramp at Calimesa Blvd	TS	29.3	C	41.9	D

Notes:

(1) TS = Traffic Signal; UN = Uncontrolled

(2) Delay is shown in seconds/vehicle. For intersections with traffic signal or all way stop control, overall average intersectio and LOS are shown. For intersections with cross street stop control, LOS is based on average delay of the worst individu movements sharing a lane).

(3) LOS = Level of Service

Table 7
Cumulative Plus Project Intersection Levels of Service

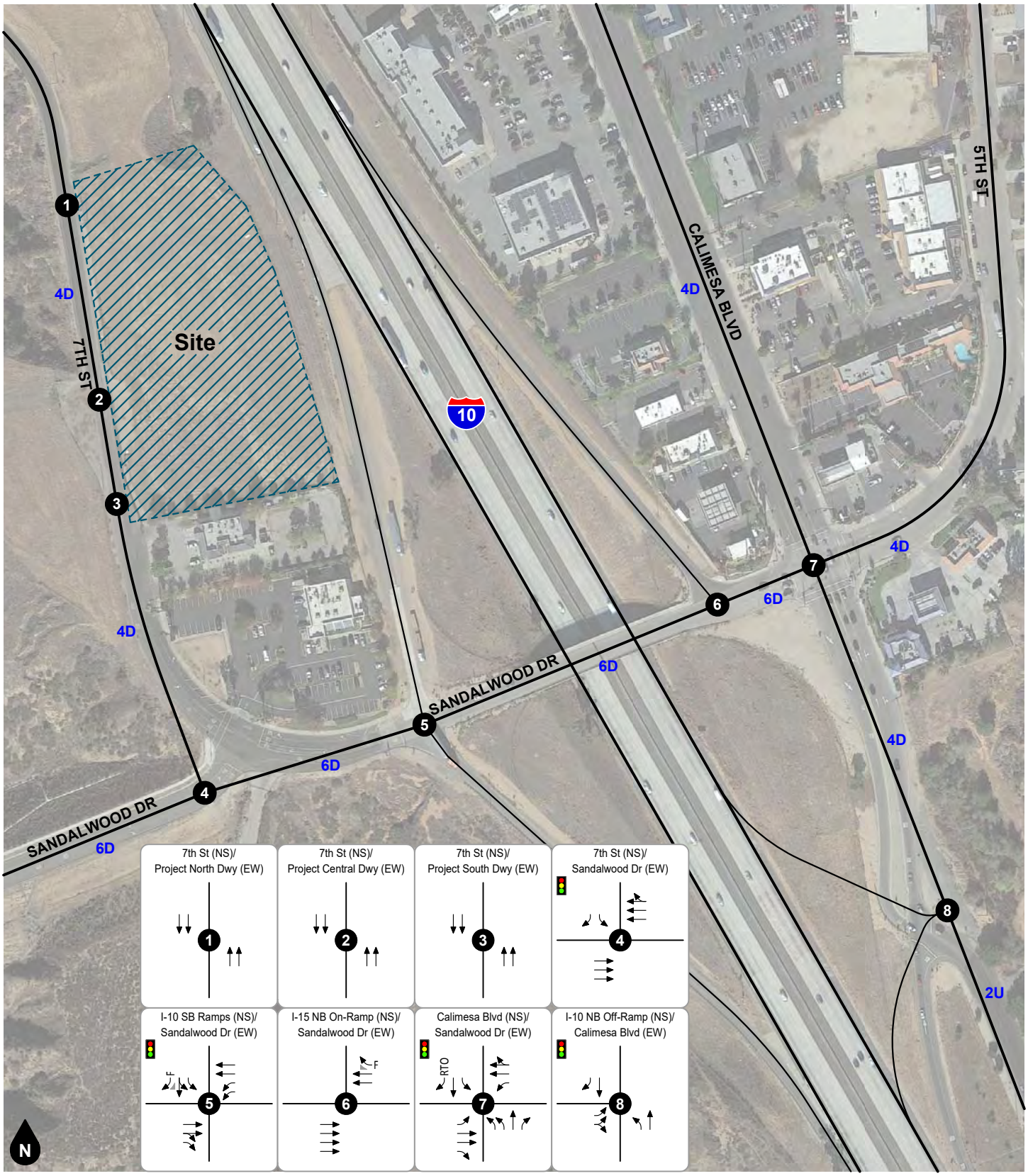
Study Intersection	Traffic Control[1]	AM Peak Hour		PM Peak Hour	
		Delay[2]	LOS[3]	Delay[2]	LOS[3]
1. 7th St at Project North Dwy	CSS	10.3	B	11.7	B
2. 7th St at Project Central Dwy	CSS	10.4	B	11.5	B
3. 7th St at Project South Dwy	CSS	0.0	A	0.0	A
4. 7th St at Sandalwood Dr	TS	4.4	A	7.5	A
5. I-10 SB Ramps at Sandalwood Dr	TS	18.6	B	21.6	C
6. I-10 NB On-Ramp at Sandalwood Dr	UN	0.0	A	0.0	A
7. Calimesa Blvd at Sandalwood Dr	TS	29.6	C	53.5	D
8. I-10 NB Off-Ramp at Calimesa Blvd	TS	32.9	C	50.4	D

Notes:

(2) CSS = Cross Street Stop; TS = Traffic Signal; UN = Uncontrolled

(3) Delay is shown in seconds/vehicle. For intersections with traffic signal or all way stop control, overall average intersection delay and LOS are shown. For intersections with cross street stop control, LOS is based on average delay of the worst individual lane (or movements sharing a lane).

(4) LOS = Level of Service



Legend

- Traffic Signal
- #D #-Lane Divided Roadway
- #U #-Lane Undivided Roadway
- Existing Lane
- RTO Right Turn Overlap
- F Free Right Turn Lane

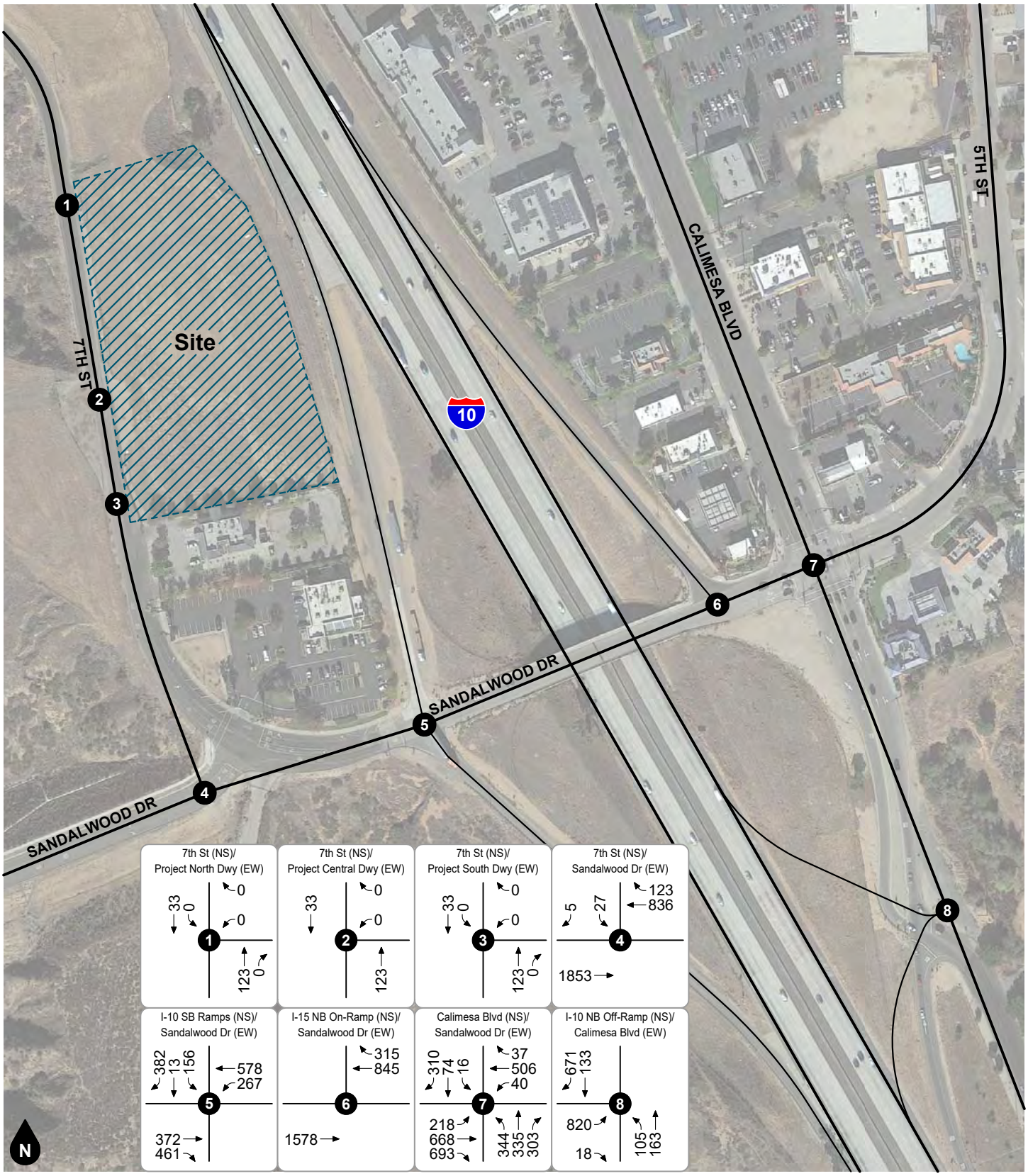
Figure 29
Buildout Year 2040
Lane Geometry and Intersection Traffic Controls



Legend

●## Vehicles Per Day (1,000's)

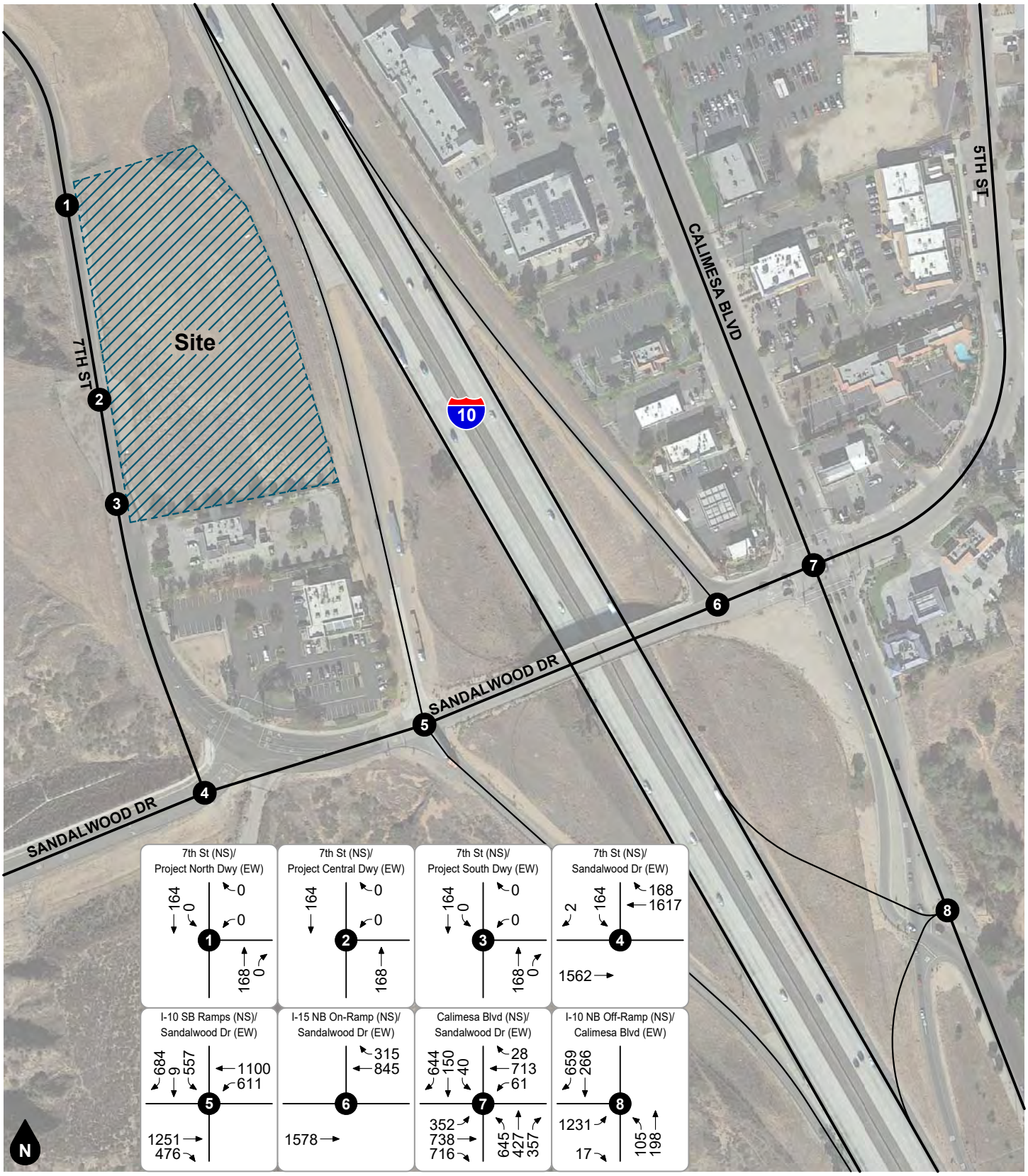
Figure 30
Cumulative No Project Average Daily Traffic Volumes



Legend

(#) Study Intersection

Figure 31
Cumulative No Project
AM Peak Hour Intersection Turning Movement Volumes



Legend

(#) Study Intersection

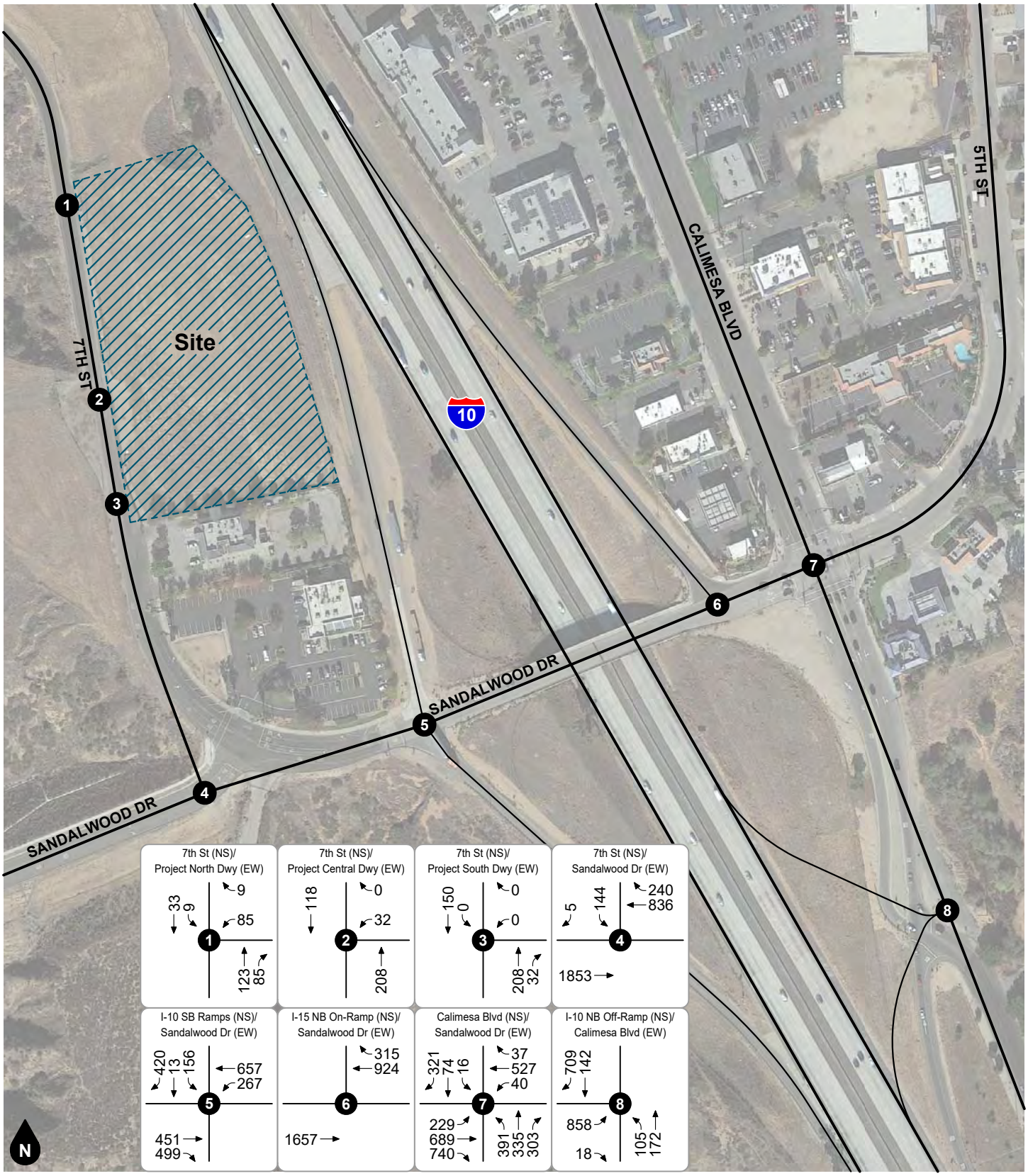
Figure 32
Cumulative No Project
PM Peak Hour Intersection Turning Movement Volumes



Legend

●## Vehicles Per Day (1,000's)

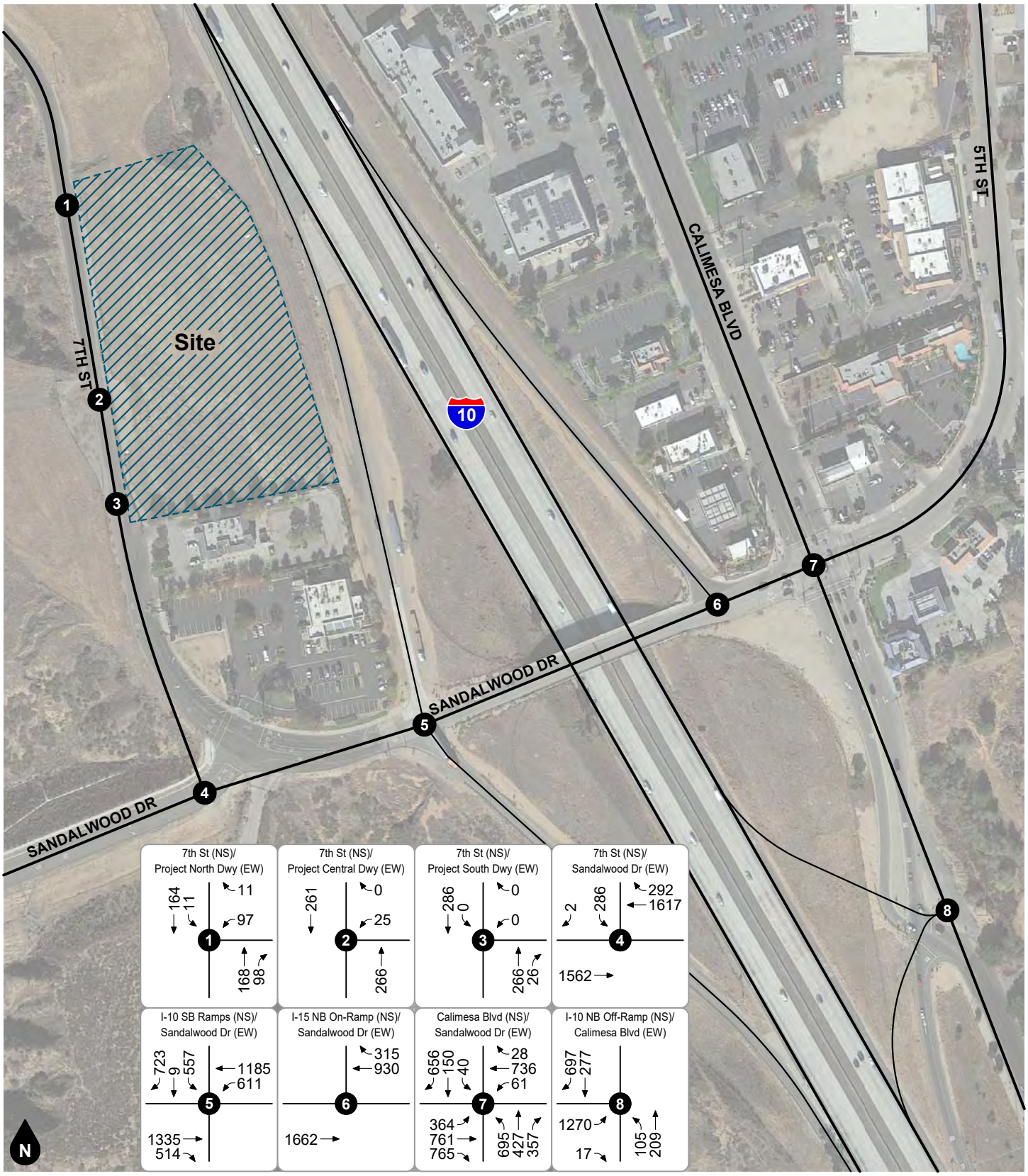
Figure 33
Cumulative Plus Project Average Daily Traffic Volumes



Legend

(#) Study Intersection

Figure 34
Cumulative Plus Project
AM Peak Hour Intersection Turning Movement Volumes



Legend

(#) Study Intersection

Figure 35
Cumulative Plus Project
PM Peak Hour Intersection Turning Movement Volumes

10. CONCLUSIONS

PROJECT TRIPS

The proposed project is forecast to generate a total of approximately 3,693 daily trips, including 251 trips during the AM peak hour and 268 trips during the PM peak hour.

LEVEL OF SERVICE ANALYSIS

Table 8 shows a summary of the intersection Level of Service analysis for the scenarios evaluated.

VEHICLE MILES TRAVELED (VMT) ANALYSIS

The proposed project satisfies the City-established VMT screening criteria for low VMT area and project type screening; therefore, the project may be presumed to result in a less than significant VMT impact and no further analysis is required.

Table 8
Summary of Intersection Levels of Service

Study Intersection	Peak Hour Delay-LOS[1,2]									
	Existing		Background Conditions		Background Conditions Plus Project		Cumulative No Project		Cumulative Plus Project	
	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
1. 7th St at Project North Dwy	-	-	-	-	10.6-B	10.6-B	-	-	10.3-B	11.7-B
2. 7th St at Project Central Dwy	-	-	-	-	10.9-B	10.8-B	-	-	10.4-B	11.5-B
3. 7th St at Project South Dwy	-	-	-	-	0-A	0-A	-	-	0-A	0-A
4. 7th St at Sandalwood Dr	8.4-A	7.9-A	9.3-A	9-A	11-B	10.4-B	1.9-A	4.7-A	4.4-A	7.5-A
5. I-10 SB Ramps at Sandalwood Dr	14.5-B	11.2-B	17.5-C	13.7-B	25.4-D	17.7-C	19.3-B	20.9-C	18.6-B	21.6-C
6. I-10 NB On-Ramp at Sandalwood Dr	10.8-B	8.9-A	11.9-B	9.5-A	13.1-B	10.2-B	0-A	0-A	0-A	0-A
7. Calimesa Blvd at Sandalwood Dr	26.3-C	19.4-B	27.4-C	20.5-C	28.6-C	21.4-C	27.9-C	43-D	29.6-C	53.5-D
8. I-10 NB Off-Ramp at Calimesa Blvd	17.5-C	9.6-A	23.1-C	10.5-B	32-D	11.3-B	29.3-C	41.9-D	32.9-C	50.4-D

Notes:

(1) Delay is shown in seconds/vehicle. For intersections with traffic signal or all way stop control, overall average intersection delay and LOS are shown. For intersections with cross street stop control, LOS is based on average delay of the worst individual lane (or movements sharing a lane).

(2) LOS = Level of Service

APPENDICES

Appendix A Glossary
Appendix B Scoping Agreement
Appendix C Volume Count Worksheets
Appendix D Level of Service Worksheets
Appendix E Traffic Signal Warrant Worksheet
Appendix F Sight Distance Standards
Appendix G Vehicle Miles Traveled (VMT) Analysis
Appendix H Buildout Year 2040 Level of Service Worksheets
Appendix I Addendum to Traffic Impact Analysis

APPENDIX A

GLOSSARY

GLOSSARY OF TERMS

ACRONYMS

AC	Acres
ADT	Average Daily Traffic
Caltrans	California Department of Transportation
DU	Dwelling Unit
ICU	Intersection Capacity Utilization
LOS	Level of Service
TSF	Thousand Square Feet
V/C	Volume/Capacity
VMT	Vehicle Miles Traveled

TERMS

AVERAGE DAILY TRAFFIC: The average 24-hour volume for a stated period divided by the number of days in that period. For example, Annual Average Daily Traffic is the total volume during a year divided by 365 days.

BANDWIDTH: The number of seconds of green time available for through traffic in a signal progression.

BOTTLENECK: A point of constriction along a roadway that limits the amount of traffic that can proceed downstream from its location.

CAPACITY: The maximum number of vehicles that can be reasonably expected to pass over a given section of a lane or a roadway in a given time period.

CHANNELIZATION: The separation or regulation of conflicting traffic movements into definite paths of travel by the use of pavement markings, raised islands, or other suitable means to facilitate the safe and orderly movements of both vehicles and pedestrians.

CLEARANCE INTERVAL: Nearly same as yellow time. If there is an all red interval after the end of a yellow, then that is also added into the clearance interval.

CONTROL DELAY: The component of delay, typically expressed in seconds per vehicle, resulting from the type of traffic control at an intersection. Control delay is measured by comparison with the uncontrolled condition; it includes delay incurred by slowing down, stopping/waiting, and speeding up.

CORDON: An imaginary line around an area across which vehicles, persons, or other items are counted (in and out).

CORNER SIGHT DISTANCE: The minimum sight distance required by the driver of a vehicle to cross or enter the lanes of the major roadway without requiring approaching traffic travelling at a given speed to radically alter their speed or trajectory. Corner sight distance is measured from the driver's eye at 42 inches above the pavement to an object height of 36 inches above the pavement in the center of the nearest approach lane.

CYCLE LENGTH: The time period in seconds required for a traffic signal to complete one full cycle of indications.

CUL-DE-SAC: A local street open at one end only and with special provisions for turning around.

DAILY CAPACITY: A theoretical value representing the daily traffic volume that will typically result in a peak hour volume equal to the capacity of the roadway.

DELAY: The time consumed while traffic is impeded in its movement by some element over which it has no control, usually expressed in seconds per vehicle.

DEMAND RESPONSIVE SIGNAL: Same as traffic-actuated signal.

DENSITY: The number of vehicles occupying in a unit length of the through traffic lanes of a roadway at any given instant. Usually expressed in vehicles per mile.

DETECTOR: A device that responds to a physical stimulus and transmits a resulting impulse to the signal controller.

DESIGN SPEED: A speed selected for purposes of design. Features of a highway, such as curvature, superelevation, and sight distance (upon which the safe operation of vehicles is dependent) are correlated to design speed.

DIRECTIONAL SPLIT: The percent of traffic in the peak direction at any point in time.

DIVERSION: The rerouting of peak hour traffic to avoid congestion.

FORCED FLOW: Opposite of free flow.

FREE FLOW: Volumes are well below capacity. Vehicles can maneuver freely and travel is unimpeded by other traffic.

GAP: Time or distance between successive vehicles in a traffic stream, rear bumper to front bumper.

HEADWAY: Time or distance spacing between successive vehicles in a traffic stream, front bumper to front bumper.

INTERCONNECTED SIGNAL SYSTEM: A number of intersections that are connected to achieve signal progression.

LEVEL OF SERVICE: A qualitative measure of a number of factors, which include speed and travel time, traffic interruptions, freedom to maneuver, safety, driving comfort and convenience, and operating costs.

LOOP DETECTOR: A vehicle detector consisting of a loop of wire embedded in the roadway, energized by alternating current and producing an output circuit closure when passed over by a vehicle.

MINIMUM ACCEPTABLE GAP: Smallest time headway between successive vehicles in a traffic stream into which another vehicle is willing and able to cross or merge.

MULTI-MODAL: More than one mode; such as automobile, bus transit, rail rapid transit, and bicycle transportation modes.

OFFSET: The time interval in seconds between the beginning of green at one intersection and the beginning of green at an adjacent intersection.

PLATOON: A closely grouped component of traffic that is composed of several vehicles moving, or standing ready to move, with clear spaces ahead and behind.

PASSENGER CAR EQUIVALENT (PCE): A metric used to assess the impact of larger vehicles, such as trucks, recreational vehicles, and buses, by converting the traffic volume of larger vehicles to an equivalent number of passenger cars.

PEAK HOUR: The 60 consecutive minutes with the highest number of vehicles.

PRETIMED SIGNAL: A type of traffic signal that directs traffic to stop and go on a predetermined time schedule without regard to traffic conditions. Also, fixed time signal.

PROGRESSION: A term used to describe the progressive movement of traffic through several signalized intersections.

QUEUE: The number of vehicles waiting at a service area such as a traffic signal, stop sign, or access gate.

QUEUE LENGTH: The length of vehicle queue, typically expressed in feet, waiting at a service area such as a traffic signal, stop sign, or access gate.

SCREEN-LINE: An imaginary line or physical feature across which all trips are counted, normally to verify the validity of mathematical traffic models.

SHARED/RECIPROCAL PARKING AGREEMENT: A written binding document executed between property owners to provide a designated number of off-street parking stalls within a designated area to be available for specified businesses or land uses.

SIGHT DISTANCE: The continuous length of roadway visible to a driver or roadway user.

SIGNAL CYCLE: The time period in seconds required for one complete sequence of signal indications.

SIGNAL PHASE: The part of the signal cycle allocated to one or more traffic movements.

STACKING DISTANCE: The length of area available behind a service area, such as a traffic signal or gate, for vehicle queueing to occur.

STARTING DELAY: The delay experienced in initiating the movement of queued traffic from a stop to an average running speed through an intersection.

STOPPING SIGHT DISTANCE: The minimum distance required by the driver of a vehicle on the major roadway travelling at a given speed to bring the vehicle to a stop after an object on the road becomes visible. Stopping sight distance is measured from the driver's eye at 42 inches above the pavement to an object height of 6 inches above the pavement.

TRAFFIC-ACTUATED SIGNAL: A type of traffic signal that directs traffic to stop and go in accordance with the demands of traffic, as registered by the actuation of detectors.

TRIP: The movement of a person or vehicle from one location (origin) to another (destination). For example, from home to store to home is two trips, not one.

TRIP-END: One end of a trip at either the origin or destination (i.e., each trip has two trip-ends). A trip-end occurs when a person, object, or message is transferred to or from a vehicle.

TRIP GENERATION RATE: The quantity of trips produced and/or attracted by a specific land use stated in terms of units such as per dwelling, per acre, and per 1,000 square feet of floor space.

TRUCK: A vehicle having dual tires on one or more axles, or having more than two axles.

TURNING RADIUS: The circular arc formed by the smallest turning path radius of the front outside tire of a vehicle, such as that performed by a U-turn maneuver. This is based on the length and width of the wheel base as well as the steering mechanism of the vehicle.

UNBALANCED FLOW: Heavier traffic flow in one direction than the other. On a daily basis, most facilities have balanced flow. During the peak hours, flow is seldom balanced in an urban area.

VEHICLE MILES OF TRAVEL: A measure of the amount of usage of a section of highway, obtained by multiplying the average daily traffic by length of facility in miles.

APPENDIX B

SCOPING AGREEMENT

1ST REVIEW
11.16.2020

Exhibit B

SCOPING AGREEMENT FOR TRAFFIC IMPACT STUDY

This letter acknowledges the Riverside County Transportation Department requirements for traffic impact analysis of the following project. The analysis must follow the Riverside County Transportation Department Traffic Study Guidelines dated April 2008.

Case No. _____
Related Cases -
SP No. _____
EIR No. _____
GPA No. _____
CZ No. _____
Project Name: Sandalwood Travel Center
Project Address: Between 7th Street and I-10 Freeway appx. 1,000 feet north of Sandalwood Drive
Project Description: 7,110 SF travel center with 8 FPs, 4 Diesel FPs, and a fast-food restaurant w/ drive-thru

	Consultant	Developer
Name:	Ganddini Group, Inc./ Bryan Crawford	J&T Management Inc. / Jack Kofdarali
Address:	550 Parkcenter Dr. Suite 202	139 Radio Road
	Santa Ana, Ca 92705	Corona, CA 92879
Telephone:	714-795-3100 ext 104	951-280-3833
Fax:	bryan@ganddini.com	jack@jntmgmt.com

A. Trip Generation Source: Institute of Transportation Engineers (ITE), Trip Generation, 10th Edition, 2017

Current GP Land Use	Community Commercial (CC)	Proposed Land Use	Community Commercial (CC)
Current Zoning	Community Commercial (C-C)	Proposed Zoning	Community Commercial (C-C)

Current Trip Generation	In	Out	Total	Proposed Trip Generation	In	Out	Total
AM Trips	-	-	-		126	125	251
PM Trips	-	-	-		135	133	268

Internal Trip Allowance [x] Yes [ ] No (10 % Trip Discount)
Pass-By Trip Allowance [ ] Yes [x] No (____ % Trip Discount)

A passby trip discount of 25% is allowed for appropriate land uses. The passby trips at adjacent study area intersections and project driveways shall be indicated on a report figure.

B. Trip Geographic Distribution: (attach exhibit for detailed assignment)
N 10 % S 90 % E ____ % W ____ %

C. Background Traffic

Project Build-out Year: 2022 Annual Ambient Growth Rate: 2.0 %

Phase Year(s) _____
Other area projects to be analyzed: Please provide cumulative data.

* Mesa Verde Specific Plan

Model/Forecast methodology: Manual build up approach

Contact + OBTAIN TIA
KELLY Lucia Calimesa Planning Mgr

Exhibit B – Scoping Agreement – Page 2

D. Study intersections: *(NOTE: Subject to revision after other projects, trip generation and distribution are determined, or comments from other agencies.)*

1. 7th Street (NS) at Project North Driveway (EW)
2. 7th Street (NS) at Project Central Driveway (EW)
3. 7th Street (NS) at Project South Driveway (EW)
4. 7th Street (NS) at Sandalwood Drive EW)
5. I-10 SB Ramps (NS) at Sandalwood Drive (EW)
6. I-10 NB On Ramp (NS) at Sandalwood Drive (EW)
7. Calimesa Boulevard (NS) at Sandalwood Drive (EW)
8. I-10 NB Off Ramp (NS) at Calimesa Boulevard (EW)
9.
10.

see comment

E. Study Roadway Segments: *(NOTE: Subject to revision after other projects, trip generation and distribution are determined, or comments from other agencies.)*

1.
2.
3.
4.
5.
6.
7.
8.
9.
10.

E. Other Jurisdictional Impacts

Is this project within a City's Sphere of Influence or one-mile radius of City boundaries? [X] Yes [ ] No

If so, name of City Jurisdiction: City of Yucaipa

F. Site Plan (please attach reduced copy) See Figure 2

G. Specific issues to be addressed in the Study (in addition to the standard analysis described line) (To be filled out by Transportation Department)

(NOTE: If the traffic study states that "a traffic signal is warranted" (or "a traffic signal appears to be warranted," or similar statement) at an existing unsignalized intersection under existing conditions, 8-hour approach traffic volume information must be submitted in addition to the peak hourly turning movement counts for that intersection.)

8-hour traffic counts not necessary. Sight distance analysis. Fair share analysis and cost estimate analysis.

include truck turn templates

H. Existing Conditions

Traffic count data must be new or recent. Provide traffic count dates if using other than new counts.
Date of counts New Counts and/or Historical Counts

***NOTE* Traffic Study Submittal Form and appropriate fee must be submitted with, or prior to submittal of this form. Transportation Department staff will not process the Scoping Agreement prior to receipt of the fee.**

Recommended by:

Bryan Crawford
Consultant's Representative _____ Date

Approved Scoping Agreement:

City of Calimesa Transportation Department _____ Date

Scoping Agreement Submitted on 11-10-2020

Revised on _____

ganddini

Your Trusted Advisors for
Transportation & Environmental Analysis

November 10, 2020

Ms. Monae Pugh
CITY OF CALIMESA DEPARTMENT OF PUBLIC WORKS

RE: Sandalwood Travel Center Traffic Impact Analysis Scoping Agreement
19317

Dear Ms. Pugh:

INTRODUCTION

The following is additional issues to be addressed in the traffic impact analysis.

STUDY SCENARIOS

The following study scenarios will be analyzed in the traffic impact analysis:

- Existing
- Background Conditions (Ambient Growth + Other Development) (2022)
- Background Conditions Plus Project (2022)
- Cumulative No Project (Ambient Growth + Other Development) (2040)
- Cumulative Plus Project (2040)

TRAFFIC COUNTS

Historical data is available.

New intersection turning movement counts will be collected at the study intersections during the AM peak period (7:00 AM – 9:00 AM) and PM peak period (4:00 PM – 6:00 PM) on a typical weekday (Tuesday, Wednesday, or Thursday) when historical traffic counts are not available. Historical traffic counts will be acquired for the study intersection where available. These historical traffic counts will be adjusted with a growth rate for 2020 traffic conditions. Intersections without historical traffic count data will be manually adjusted based on the traffic volumes at nearby intersections with historical data to forecast pre-pandemic traffic conditions.

SIGHT DISTANCE ANALYSIS

Figure 7 shows a sight distance analysis for the project driveways based on stopping sight distance. This sight distance analysis will be included in the traffic impact analysis.

VMT SCREENING ASSESSMENT

The project VMT impact has been assessed in accordance with guidance from the Final City of Calimesa Transportation Impact Analysis Guidelines for Vehicle Miles Traveled and Level of Service Assessment (May 2020) ["City of Calimesa TIA Guidelines"].

550 Parkcenter Drive, Suite 202, Santa Ana, CA 92705
(714) 795-3100 | www.ganddini.com

The City of Calimesa TIA Guidelines provide screening thresholds for certain types of projects that may be presumed to cause a less than significant VMT impact based on substantial evidence provided in the OPR Technical Advisory, or projects that are local serving and thus, by definition, reduce VMT by decreasing the number or distance of trips.

The City of Calimesa TIA Guidelines provide the following three screening steps: 1) Transit Priority Area (TPA) Screening; 2) Low VMT Area Screening; and 3) Project Type Screening.

TRANSIT PRIORITY AREA (TPA) SCREENING

Projects located within a TPA (half mile area around an existing major transit stop or an existing stop along a high quality transit corridor) may be presumed to have a less than significant impact absent substantial evidence to the contrary. This presumption may not be appropriate if the project:

1. Has a Floor Area Ration (FAR) of less than 0.75;
2. Includes more parking for use by residents, customers, or employees of the project than required by the jurisdiction (if the jurisdiction requires the project to supply parking)
3. Is inconsistent with the applicable Sustainable Communities Strategy (as determined by the City Traffic Engineer, with input from the Metropolitan Planning Organization): or
4. Replaces affordable residential units with a smaller number of moderate or high-income residential units.

The Western Riverside Council of Governments (WRCOG) VMT Screening Tool was used to determine if the project is located within a TPA. Based on review of the WRCOG VMT Screening Tool, the proposed project is not located within a TPA; therefore, the proposed project cannot be presumed to result in a less than significant VMT impact under this screening criteria.

LOW VMT AREA SCREENING

Residential and office projects located within a low VMT generating area may be presumed to have a less than significant impact absent substantial evidence to the contrary. In addition, other employment-related and mixed-use land use projects may qualify for the use of screening if the project can reasonably be expected to generate VMT per resident, per worker, or per service population that is similar to the existing land uses in the low VMT area.

The WRCOG VMT Screening Tool was used assess low VMT area screening for the project. The WRCOG VMT Screening Tool was developed using the RIVTAM travel forecasting model to measure VMT performance for individual jurisdictions and for individual traffic analysis zones (TAZs) within the WRCOG region. TAZs are geographic polygons similar to census block groups used to represent areas of homogenous travel behavior. Total daily VMT per service population (population plus employment) was estimated for each TAZ. This presumption may not be appropriate if the project land uses would alter the existing built environment in such a way as to increase the rate or length of vehicle trips.

The City of Calimesa General Plan Buildout VMT threshold is 37.3 VMT per service population. The baseline project TAZ VMT is 35.09 VMT per service population.

Based on review of the WRCOG VMT Screening Tool, the proposed project is located within a low VMT area; therefore, the proposed project cannot be presumed to result in a less than significant VMT impact under this screening criteria.

PROJECT TYPE SCREENING

Some project types have been identified as having the presumption of a less than significant impact as they are local serving by nature, or they are small enough to not warrant assessment. The following uses can be presumed to have a less than significant impact absent substantial evidence to the contrary as their uses are local serving in nature:

- Local serving K-12 schools
- Local parks
- Day care centers
- Local-serving gas stations
- Local-serving banks
- Local-serving hotels (e.g. non-destination hotels)
- Student housing projects
- Local-serving medical facilities
- Local serving community colleges that are consistent with the assumptions noted in the RTP/SCS
- Projects generating less than 110 daily vehicle trips. This generally corresponds to the following "typical" development potentials:
  - 11 single family housing units
  - 16 multi-family, condominiums, or townhouse housing units
  - 10,000 square feet of office
  - 15,000 square feet of light industrial
  - 63,000 square feet of warehousing
  - 79,000 square feet of high-cube transload and short-term storage warehouse

The OPR Technical Advisory contains guidance indicating that local-serving retail, defined as less than 50,000 square feet, would typically shorten trips and reduce VMT. New retail development typically redistributes shopping trips rather than creating new trips. By adding retail opportunities into the urban fabric and thereby improving proximity, local-serving retail tends to shorten trips and reduce VMT.

Based on review of project type screening, the proposed project does meet project type screening since the project is local-serving retail and local-serving gas stations land uses; therefore, the proposed project can be presumed to result in a less than significant VMT impact under this screening criteria.

SCREENING ASSESSMENT FINDING

The proposed project does meet the City-established VMT screening criteria for low VMT area screening and project type screening; therefore, a detailed VMT analysis is not required for the proposed project.

need to document all in report APPENDIX

Table 1
Project Trip Generation

Trip Generation Rates									
			AM Peak Hour			PM Peak Hour			Daily
Land Use	Source[1]	Units[2]	% In	% Out	Rate	% In	% Out	Rate	Rate
Convenience Market with Gasoline Pumps	ITE 853	FP	50%	50%	20.76	50%	50%	23.04	322.50
Diesel Fueling Facility/Gas Station	ITE 944	FP	50%	50%	10.28	50%	50%	14.03	172.01
Fast-Food Restaurant with Drive-Thru	ITE 934	TSF	51%	49%	40.19	52%	48%	32.67	470.95

Trips Generated									
			AM Peak Hour			PM Peak Hour			
Land Use	Quantity	Units[2]	In	Out	Total	In	Out	Total	Daily
Convenience Market with Gasoline Pumps[3]	8	FP	83	83	166	92	92	184	2,580
Diesel Fueling Facility/Gas Station[4]	4	FP	21	21	42	28	28	56	688
Fast-Food Restaurant with Drive-Thru	1.772	TSF	36	35	71	30	28	58	835
Subtotal			140	139	279	150	148	298	4,103
Internal Capture (10%)[5]			-14	-14	-28	-15	-15	-30	-410
Total			126	125	251	135	133	268	3,693

Notes:

(1) ITE = Institute of Transportation Engineers, Trip Generation Manual, 10th Edition, 2017; XXX= Land Use Code

(2) VFP = Vehicle Fueling Positions; TSF = Thousand Square Feet

(3) The total gross floor area for the convenience market and fast-food restaurant with drive-thru is 7,110 square feet. The convenience market is 3,849 square feet, the fast-food restaurant is 1,400 square feet, and the common area is 1,861 square feet. The common area consists of bathrooms, showers, laundry, storage, and a seating area for truckers. 80 percent of the common area has been allocated to the convenience center and 20 percent to the fast-food restaurant with drive-thru for trip generation purposes. Thus, the convenience market has been analyzed at 5,388 square feet and the fast-food restaurant with drive-thru has been analyzed at 1,772 square feet.

It should be noted that for trip generation purposes, the convenience market would be shared by the standard gas station pumps and the diesel fueling facility pumps.

(4) A passenger car equivalent (PCE) is a metric to assess the impact of larger vehicles, such as trucks, recreational vehicles, and buses, by converting the traffic volume of larger vehicles to an equivalent number of passenger cars. In consultation with City of Calimesa staff, the passenger car equivalent for a Semi-Truck/RV using the Diesel fueling facility would be 3.0. Thus, each trip generated by the Diesel fueling facility would be equivalent to 3 passenger cars.

However, it is important to note that the trip generation used in this report for the Diesel fueling facility is a very conservative estimate because the ITE trip generation rates for Land Use Code 944 represent the number of trips generated per vehicle fueling position at a standard passenger car fueling pump. ITE does not currently provide trip generation rates for a Diesel fueling facility In reality, the proposed Diesel fueling stations are likely to have a much lower service rate due to longer fueling times and lower demand compared to passenger cars. Furthermore, the trip generation forecast does not include reductions for pass-by trips.

For these reasons, the passenger car equivalent of 3.0 was not applied to the trip generation for the Diesel fueling facility.

(5) An internal capture of 10% was applied to account for interaction between the land uses.

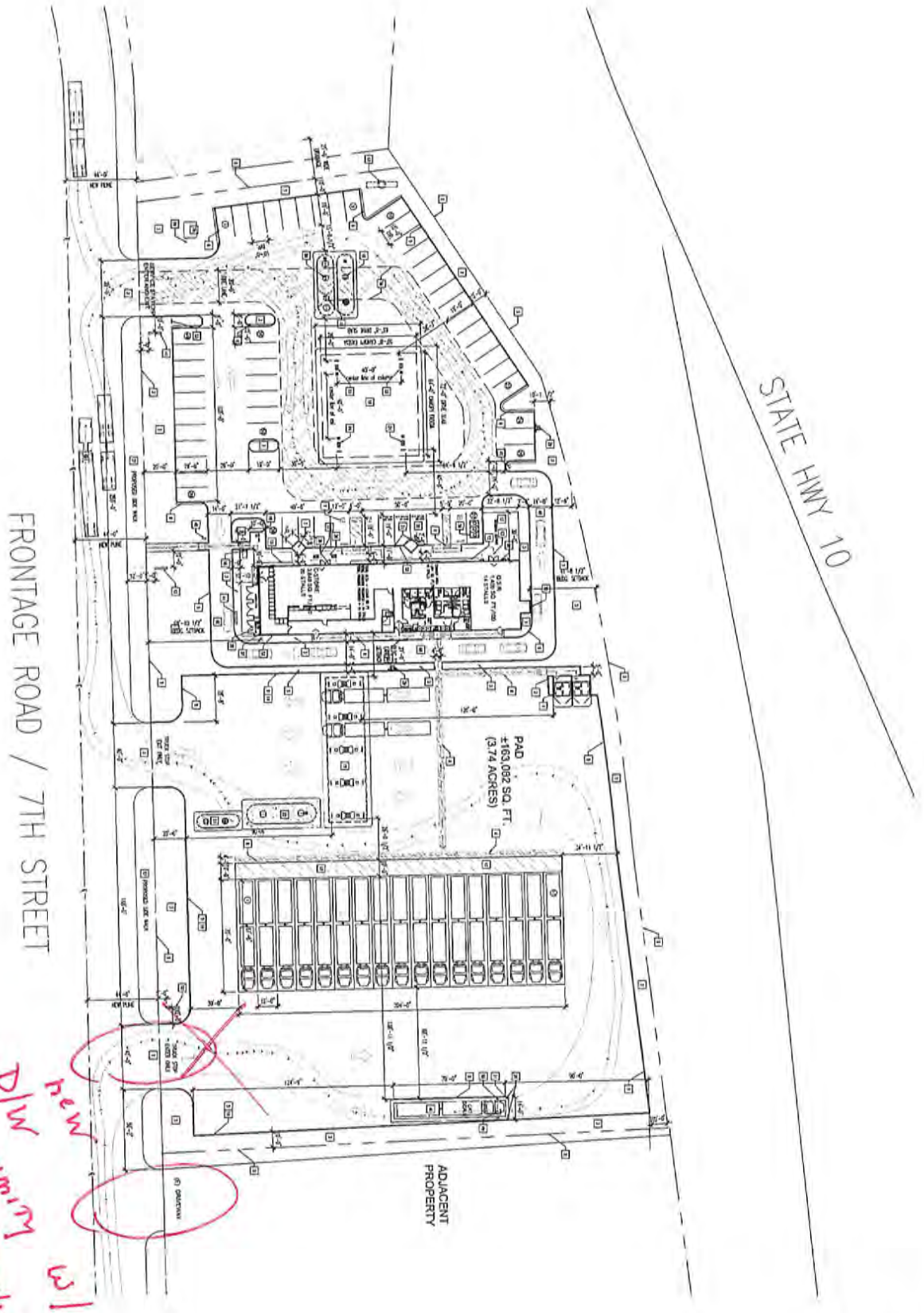


Figure 2
Site Plan

ganddini

Sandalwood Travel Center
Traffic Impact Analysis
19317



Legend
Study Intersection

see SITE PLAN

Figure 1
Project Location Map

ganddini

Sandalwood Travel Center
Traffic Impact Analysis
19317



Legend

10% Percent From Project

Figure 3
Project Outbound Trip Distribution - Gas Station/Restaurant

ganddini

Sandalwood Travel Center
Traffic Impact Analysis
19317



Legend

10% Percent To Project

Figure 4
Project Inbound Trip Distribution - Gas Station/Restaurant



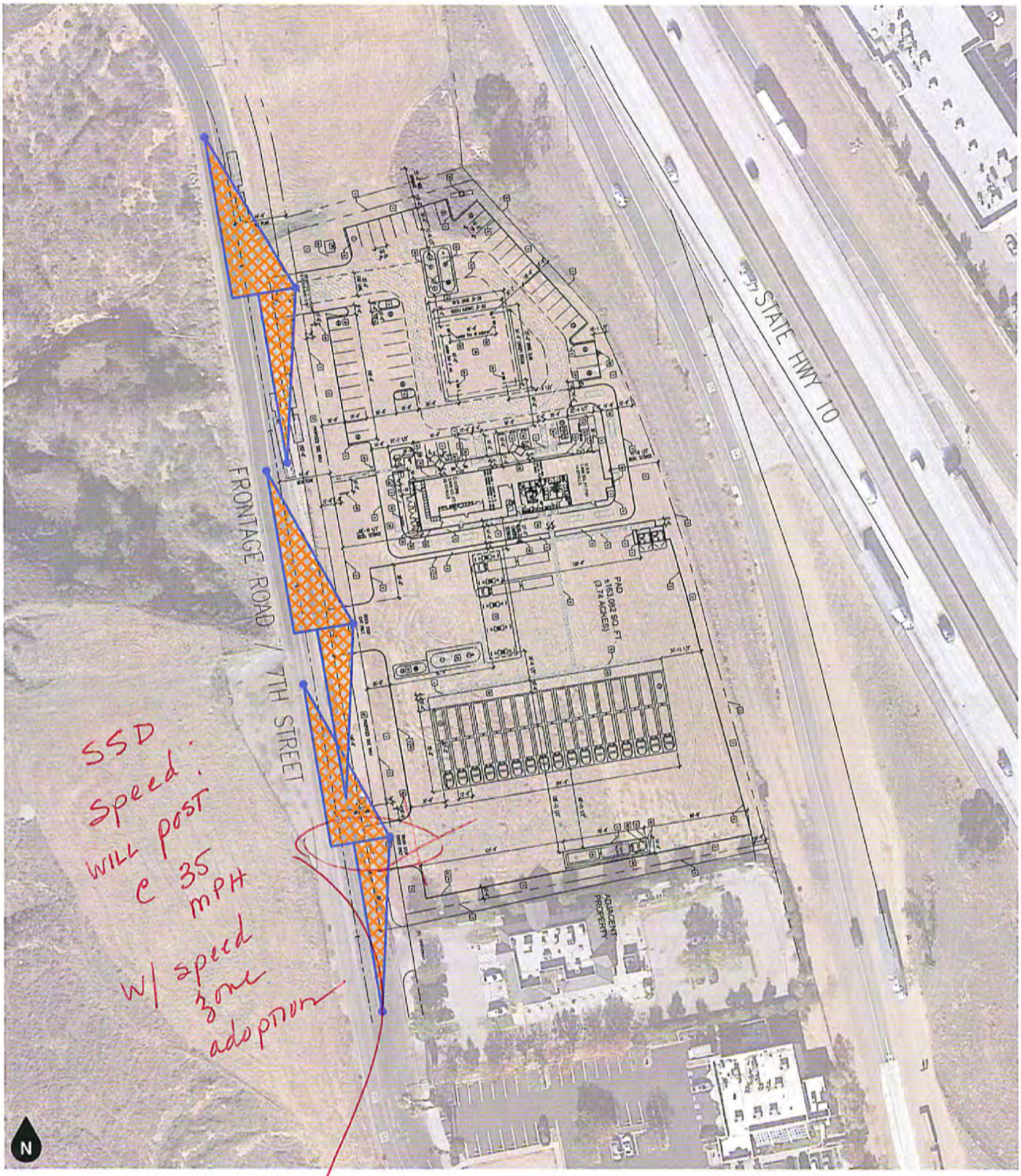
Figure 5
Project Outbound Trip Distribution - Diesel Fueling Facility



Legend

10% Percent To Project

Figure 6
Project Inbound Trip Distribution - Diesel Fueling Facility



Legend

Stopping Sight Distance 150 Feet (25MPH)

Restricted Use Area

Figure 7
Sigth Distance Analysis

ganddini

See comments

Sandalwood Travel Center
Traffic Impact Analysis
19317

APPENDIX C

VOLUME COUNT WORKSHEETS

Pandemic Factorization Calculation Summary

Historical Traffic Count (February 2020)	
Peak Period Total Roadway Segment Volume	Sandalwood Drive, between Calimesa Boulevard and 7th Street
AM (7:00 AM to 9:00 AM)	1,222
PM (4:00 PM to 6:00 PM)	1,439

Existing Traffic Count (Pandemic Conditions)	
Peak Period Total Turning Movement Volumes	Sandalwood Drive, between Calimesa Boulevard and 7th Street
AM	460
PM	1,290

AM Peak Period Growth Rate to Factor Modified Historical Traffic Count and Existing Traffic Count (Pandemic Conditions) to 2020 Pre-Pandemic Conditions:	165.65%
PM Peak Period Growth Rate to Factor Modified Historical Traffic Count and Existing Traffic Count (Pandemic Conditions) to 2020 Pre-Pandemic Conditions:	11.55%

Modified Traffic Counts to Convert Existing Traffic Counts to Pre Pandemic Conditions

AM Peak Hour Growth Rate to Convert Existing Traffic Counts to Pre Pandemic Conditions:	165.65%
PM Peak Hour Growth Rate to Convert Existing Traffic Counts to Pre Pandemic Conditions:	11.55%

7th Street (NS) at Sandalwood Drive (EW)

Existing 2020 Traffic Count (Pandemic Conditions)												
AM Peak Hour												
Northbound			Southbound			Eastbound			Westbound			
Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	Total
9	24	5	1	37	2	1	0	3	3	0	0	85
PM Peak Hour												
Northbound			Southbound			Eastbound			Westbound			
Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	Total
5	53	10	0	73	4	2	0	6	4	1	0	158

Modified 2020 Traffic Count												
AM Peak Hour												
Northbound			Southbound			Eastbound			Westbound			
Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	Total
24	64	13	3	98	5	3	0	8	8	0	0	226
PM Peak Hour												
Northbound			Southbound			Eastbound			Westbound			
Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	Total
6	59	11	0	81	4	2	0	7	4	1	0	175

I-10 SB Ramps (NS) at Sandalwood Drive (EW)

Existing 2020 Traffic Count (Pandemic Conditions)												
AM Peak Hour												
Northbound			Southbound			Eastbound			Westbound			
Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	Total
0	0	0	121	4	15	0	24	19	157	24	0	364
PM Peak Hour												
Northbound			Southbound			Eastbound			Westbound			
Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	Total
0	0	0	231	5	20	0	57	31	324	51	0	719

Modified 2020 Traffic Count												
AM Peak Hour												
Northbound			Southbound			Eastbound			Westbound			
Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	Total
0	0	0	321	11	40	0	64	50	417	64	0	967
PM Peak Hour												
Northbound			Southbound			Eastbound			Westbound			
Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	Total
0	0	0	258	6	22	0	64	35	361	57	0	803

I-10 NB On-Ramp (NS) at Sandalwood Drive (EW)

Existing 2020 Traffic Count (Pandemic Conditions)												
AM Peak Hour												
Northbound			Southbound			Eastbound			Westbound			
Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	Total
0	0	0	0	0	0	6	139	0	0	183	205	533
PM Peak Hour												
Northbound			Southbound			Eastbound			Westbound			
Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	Total
0	0	0	0	0	0	13	265	0	0	387	189	854

Modified 2020 Traffic Count												
AM Peak Hour												
Northbound			Southbound			Eastbound			Westbound			
Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	Total
0	0	0	0	0	0	16	369	0	0	486	545	1,416
PM Peak Hour												
Northbound			Southbound			Eastbound			Westbound			
Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	Total
0	0	0	0	0	0	15	296	0	0	432	211	954

Calimesa Boulevard (NS) at Sandalwood Drive (EW)

Existing 2020 Traffic Count (Pandemic Conditions)												
AM Peak Hour												
Northbound			Southbound			Eastbound			Westbound			
Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	Total
71	219	104	20	36	170	64	41	37	33	146	16	957
PM Peak Hour												
Northbound			Southbound			Eastbound			Westbound			
Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	Total
90	314	161	29	124	317	127	77	75	39	153	20	1,526

Modified 2020 Traffic Count												
AM Peak Hour												
Northbound			Southbound			Eastbound			Westbound			
Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	Total
189	582	276	53	96	452	170	109	98	88	388	43	2,544
PM Peak Hour												
Northbound			Southbound			Eastbound			Westbound			
Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	Total
100	350	180	32	138	354	142	86	84	44	171	22	1,703

I-15 NB Off-Ramp (NS) at Calimesa Boulevard (EW)

Existing 2020 Traffic Count (Pandemic Conditions)												
AM Peak Hour												
Northbound			Southbound			Eastbound			Westbound			
Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	Total
0	234	1	0	0	0	0	106	0	0	0	160	501
PM Peak Hour												
Northbound			Southbound			Eastbound			Westbound			
Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	Total
0	358	0	0	0	0	2	238	0	0	0	203	801

Modified 2020 Traffic Count												
AM Peak Hour												
Northbound			Southbound			Eastbound			Westbound			
Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	Total
0	622	3	0	0	0	0	282	0	0	0	425	1,332
PM Peak Hour												
Northbound			Southbound			Eastbound			Westbound			
Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	Total
0	399	0	0	0	0	2	265	0	0	0	226	892

Counts Unlimited, Inc.

PO Box 1178
Corona, CA 92878
Phone: (951) 268-6268
email: counts@countsunlimited.com

City of Calimesa
Sandalwood Drive
B/ Calimesa Boulevard - 7th Street
24 Hour Directional Volume Count

CAL008
Site Code: 219-20090

Start Time	12-Feb-20 Wed	Eastbound Morning	Eastbound Afternoon	Hour Totals Morning	Hour Totals Afternoon	Westbound Morning	Westbound Afternoon	Hour Totals Morning	Hour Totals Afternoon	Combined Totals Morning	Combined Totals Afternoon
12:00		18	54			11	94				
12:15		11	73			13	90				
12:30		8	66			7	102				
12:45		6	62	43	255	2	87	33	373	76	628
01:00		7	57			6	88				
01:15		5	50			4	103				
01:30		10	52			4	99				
01:45		8	57	30	216	5	130	19	420	49	636
02:00		3	83			2	111				
02:15		7	**177**			8	66				
02:30		3	**153**			2	57				
02:45		5	**121**	18	534	4	90	16	324	34	858
03:00		8	**88**			5	110				
03:15		6	103			2	103				
03:30		2	89			7	102				
03:45		8	55	24	335	8	106	22	421	46	756
04:00		2	70			5	124				
04:15		6	72			9	117				
04:30		7	49			20	96				
04:45		11	62	26	253	18	**124**	52	461	78	714
05:00		8	59			25	**124**				
05:15		13	74			21	**112**				
05:30		13	64			30	**115**				
05:45		16	59	50	256	48	118	124	469	174	725
06:00		19	66			52	98				
06:15		32	64			57	103				
06:30		51	61			73	92				
06:45		**85**	70	187	261	**91**	84	273	377	460	638
07:00		**103**	47			**112**	79				
07:15		**137**	46			**106**	80				
07:30		**122**	66			**89**	73				
07:45		49	66	411	225	74	74	381	306	792	531
08:00		30	35			77	66				
08:15		43	72			58	40				
08:30		44	56			70	62				
08:45		32	45	149	208	76	60	281	228	430	436
09:00		46	45			65	60				
09:15		35	43			76	43				
09:30		43	42			67	25				
09:45		45	38	169	168	62	29	270	157	439	325
10:00		41	32			63	28				
10:15		35	22			57	17				
10:30		56	21			67	14				
10:45		56	17	188	92	85	21	272	80	460	172
11:00		51	27			93	12				
11:15		66	17			78	8				
11:30		57	13			84	10				
11:45		61	17	235	74	101	10	356	40	591	114
Total		1530	2877	1530	2877	2099	3656	2099	3656	3629	6533
Combined Total		4407		4407		5755		5755		10162	
AM Peak	-	06:45	-	-	-	06:45	-	-	-	-	-
Vol.	-	447	-	-	-	398	-	-	-	-	-
P.H.F.		0.816				0.888					
PM Peak	-	-	02:15	-	-	-	04:45	-	-	-	-
Vol.	-	-	539	-	-	-	475	-	-	-	-
P.H.F.			0.761				0.958				
Percentage		34.7%	65.3%			36.5%	63.5%				
ADT/AADT		ADT 10,162		AADT 10,162							

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Calimesa	PROJECT #:	SC
Wed, Dec 9, 20	NORTH & SOUTH:	7th	LOCATION #:	3
	EAST & WEST:	Sandalwood	CONTROL:	STOP ALL

NOTES:

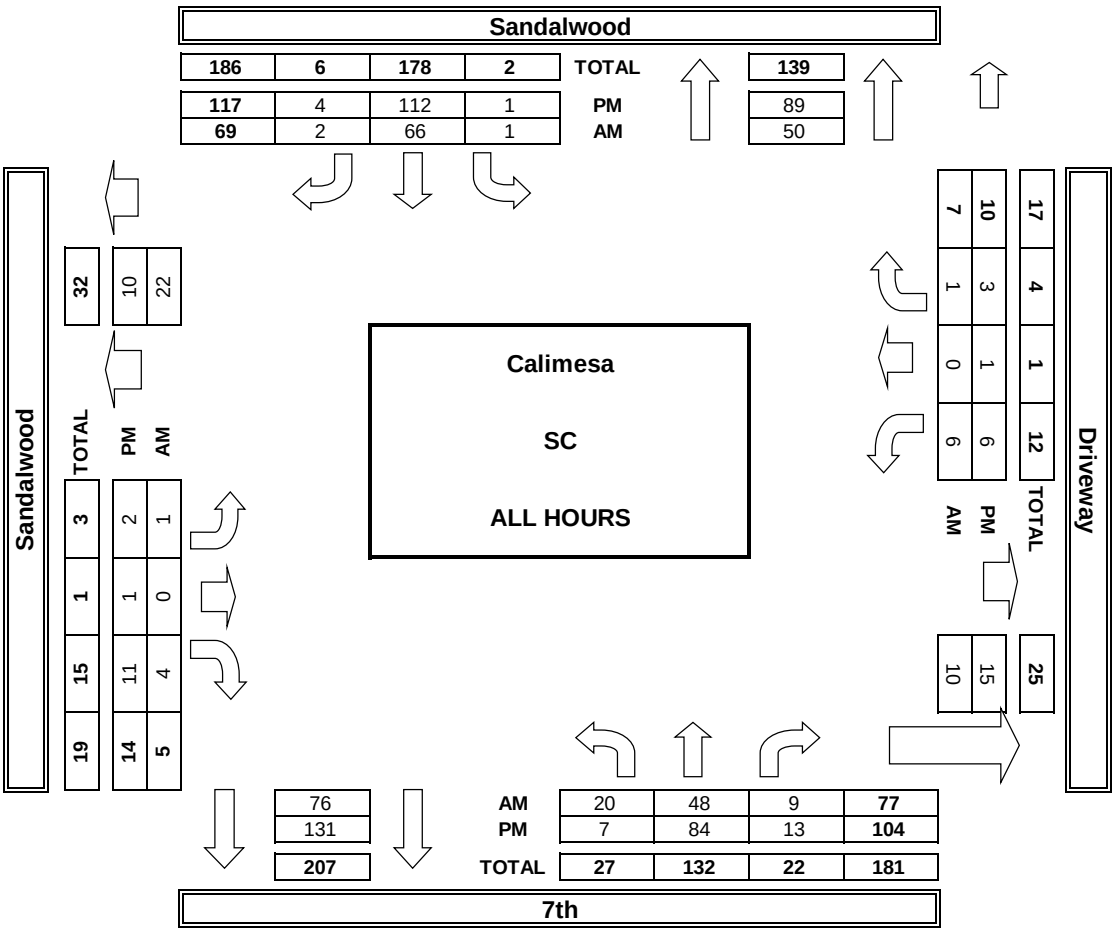
Shady Brook is closed

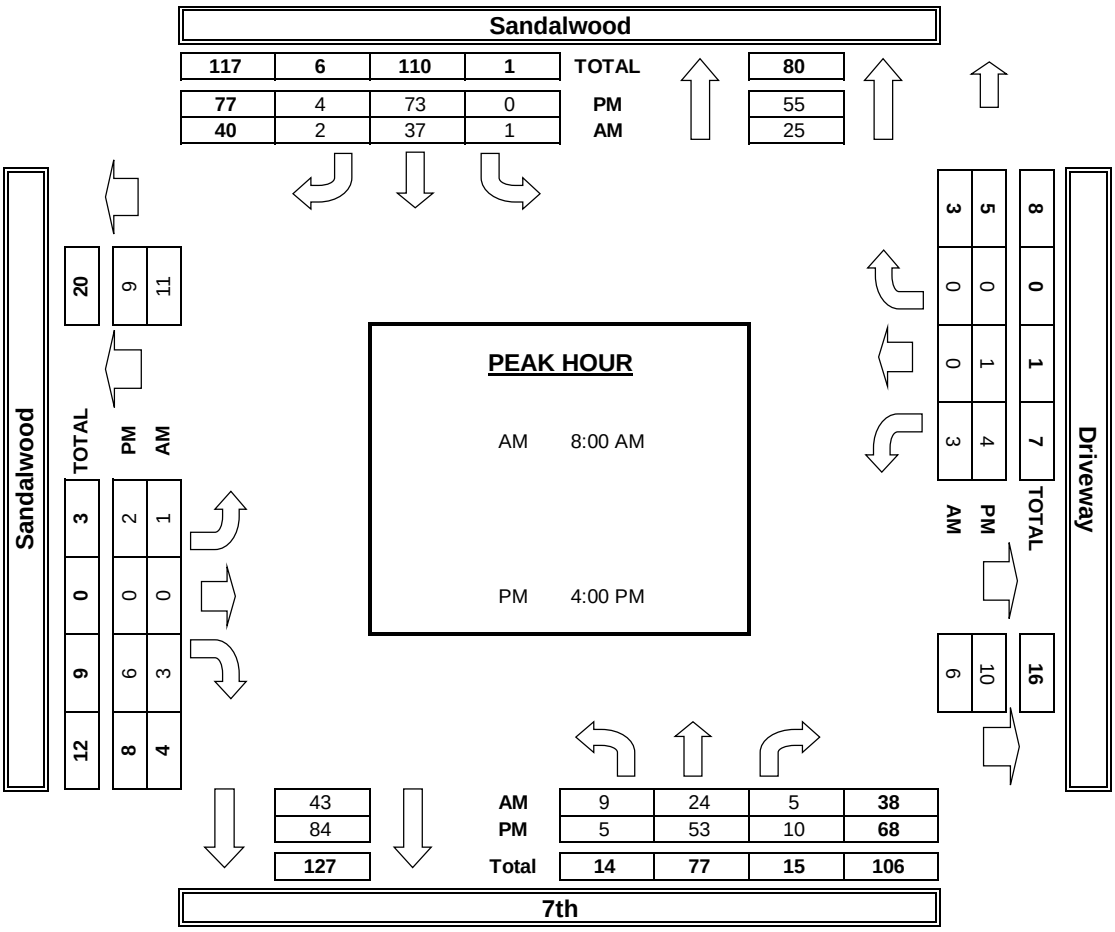
AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND 7th			SOUTHBOUND Sandalwood			EASTBOUND Sandalwood			WESTBOUND Driveway			
	LANES:	NL 1	NT 1	NR 1	SL 1	ST 1	SR 0	EL 1	ET 0	ER 1	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	0	7	1	0	8	0	0	0	0	1	0	0	17
	7:15 AM	4	6	1	0	9	0	0	0	0	0	0	1	21
	7:30 AM	4	6	2	0	6	0	0	0	1	0	0	0	19
	7:45 AM	3	5	0	0	6	0	0	0	0	2	0	0	16
	8:00 AM	1	7	2	0	9	2	0	0	0	1	0	0	22
	8:15 AM	1	6	2	1	8	0	1	0	1	1	0	0	21
	8:30 AM	4	7	1	0	14	0	0	0	0	0	0	0	26
	8:45 AM	3	4	0	0	6	0	0	0	2	1	0	0	16
	VOLUMES	20	48	9	1	66	2	1	0	4	6	0	1	158
	APPROACH %	26%	62%	12%	1%	96%	3%	20%	0%	80%	86%	0%	14%	
	APP/DEPART	77	/	50	69	/	76	5	/	10	7	/	22	0
	BEGIN PEAK HR		8:00 AM											
	VOLUMES	9	24	5	1	37	2	1	0	3	3	0	0	85
	APPROACH %	24%	63%	13%	3%	93%	5%	25%	0%	75%	100%	0%	0%	
	PEAK HR FACTOR		0.792			0.714			0.500			0.375		0.817
	APP/DEPART	38	/	25	40	/	43	4	/	6	3	/	11	0
PM	4:00 PM	0	12	3	0	18	0	0	0	2	1	0	0	36
	4:15 PM	0	14	1	0	19	2	0	0	0	0	0	0	36
	4:30 PM	4	13	5	0	17	1	0	0	1	2	1	0	44
	4:45 PM	1	14	1	0	19	1	2	0	3	1	0	0	42
	5:00 PM	0	8	1	0	11	0	0	0	3	1	0	0	24
	5:15 PM	0	6	2	0	9	0	0	1	1	0	0	3	22
	5:30 PM	1	7	0	1	10	0	0	0	1	1	0	0	21
	5:45 PM	1	10	0	0	9	0	0	0	0	0	0	0	20
	VOLUMES	7	84	13	1	112	4	2	1	11	6	1	3	245
	APPROACH %	7%	81%	13%	1%	96%	3%	14%	7%	79%	60%	10%	30%	
	APP/DEPART	104	/	89	117	/	131	14	/	15	10	/	10	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	5	53	10	0	73	4	2	0	6	4	1	0	158
	APPROACH %	7%	78%	15%	0%	95%	5%	25%	0%	75%	80%	20%	0%	
	PEAK HR FACTOR		0.773			0.917			0.400			0.417		0.898
	APP/DEPART	68	/	55	77	/	84	8	/	10	5	/	9	0

AimTD LLC

TURNING MOVEMENT COUNTS





INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:				
Wed, Dec 9, 20	LOCATION:	Calimesa	PROJECT #:	SC
	NORTH & SOUTH:	I-10 SB Ramps	LOCATION #:	2
	EAST & WEST:	Sandalwood	CONTROL:	STOP ALL

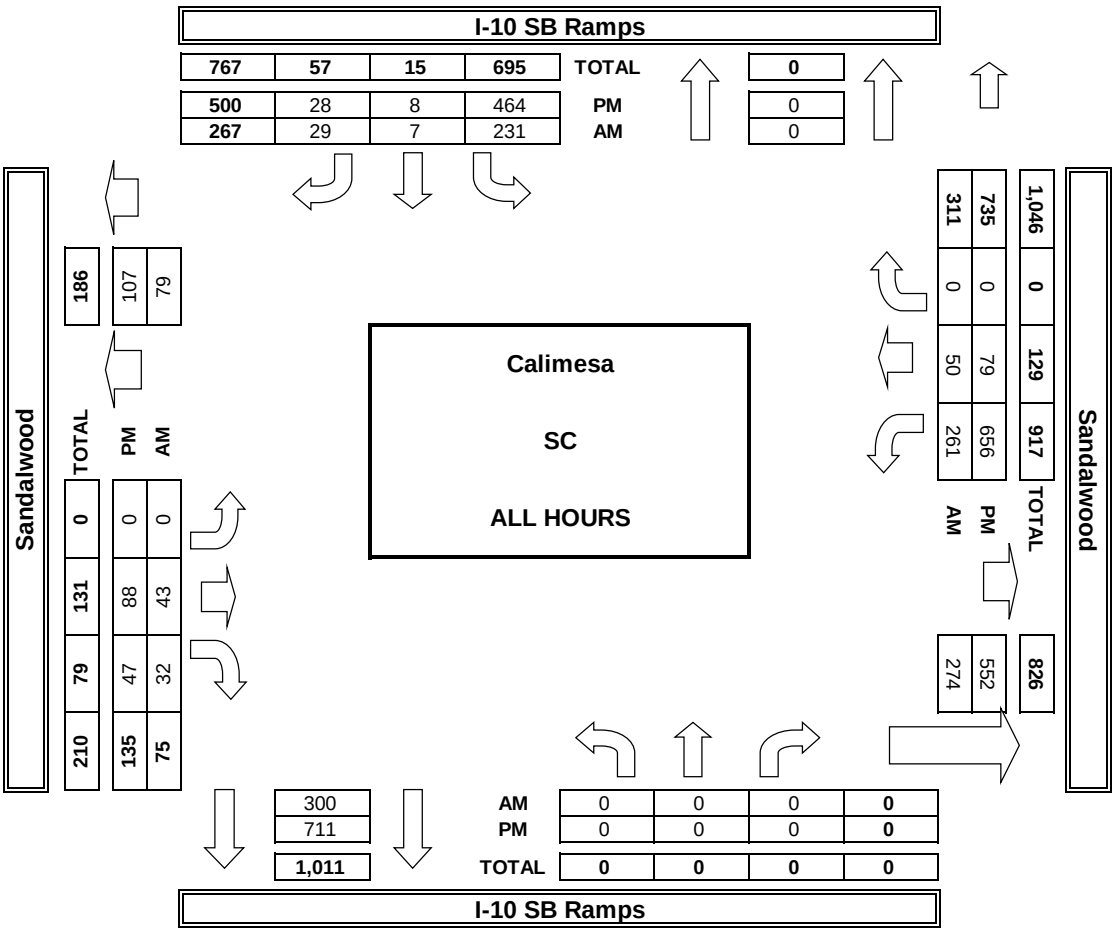
NOTES:

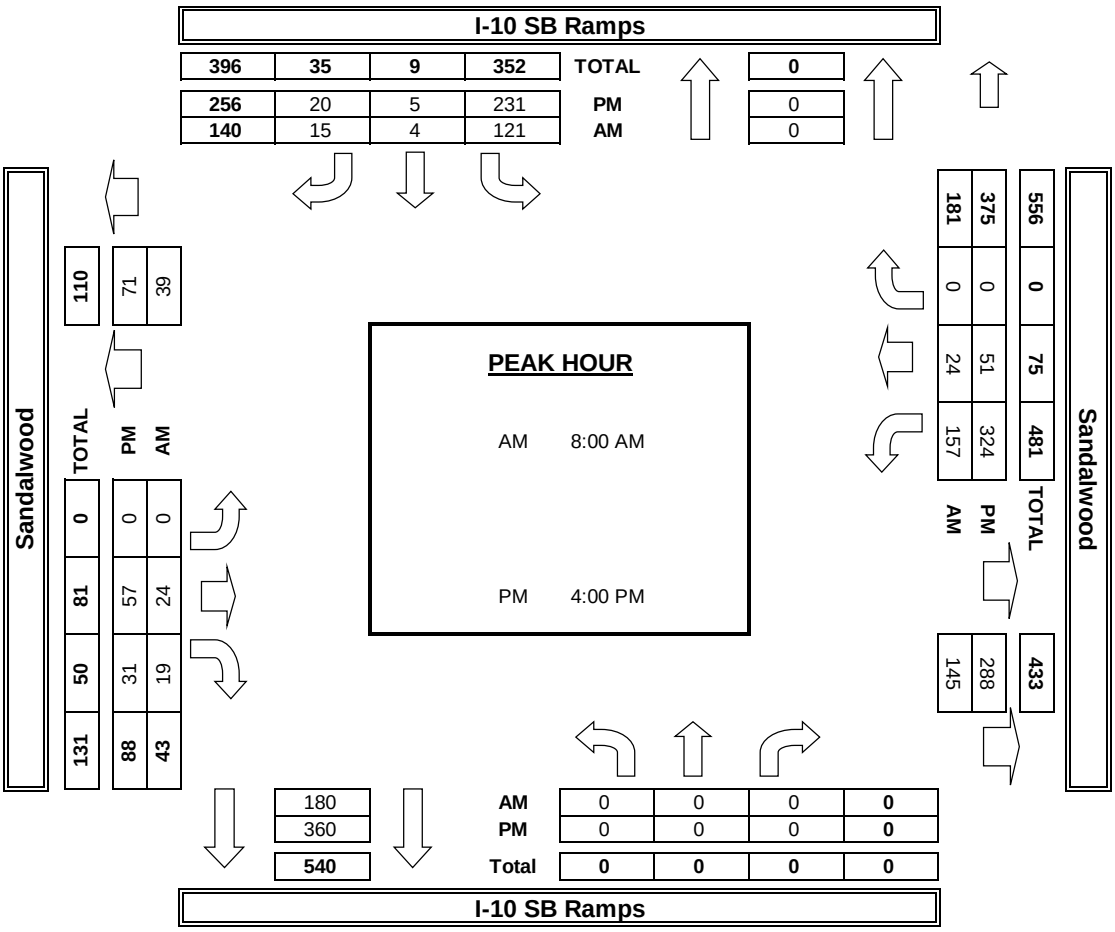
AM / PM / MD / OTHER / OTHER — ▲ N ◄ W E ► S ▼

		NORTHBOUND I-10 SB Ramps			SOUTHBOUND I-10 SB Ramps			EASTBOUND Sandalwood			WESTBOUND Sandalwood			
	LANES:	NL X	NT X	NR X	SL 0	ST 1	SR 0	EL X	ET 1	ER 0	WL 0	WT 1	WR X	TOTAL
AM	7:00 AM	0	0	0	33	0	4	0	2	7	18	6	0	70
	7:15 AM	0	0	0	19	2	4	0	8	0	31	7	0	71
	7:30 AM	0	0	0	21	1	3	0	4	4	23	8	0	64
	7:45 AM	0	0	0	37	0	3	0	5	2	32	5	0	84
	8:00 AM	0	0	0	30	2	3	0	5	5	29	7	0	81
	8:15 AM	0	0	0	28	2	4	0	7	2	34	6	0	83
	8:30 AM	0	0	0	21	0	5	0	5	9	48	7	0	95
	8:45 AM	0	0	0	42	0	3	0	7	3	46	4	0	105
	VOLUMES	0	0	0	231	7	29	0	43	32	261	50	0	653
	APPROACH %	0%	0%	0%	87%	3%	11%	0%	57%	43%	84%	16%	0%	
	APP/DEPART	0	/	0	267	/	300	75	/	274	311	/	79	0
	BEGIN PEAK HR		8:00 AM											
	VOLUMES	0	0	0	121	4	15	0	24	19	157	24	0	364
	APPROACH %	0%	0%	0%	86%	3%	11%	0%	56%	44%	87%	13%	0%	
	PEAK HR FACTOR		0.000			0.778			0.768			0.823		0.867
	APP/DEPART	0	/	0	140	/	180	43	/	145	181	/	39	0
PM	4:00 PM	0	0	0	61	2	5	0	14	8	73	18	0	181
	4:15 PM	0	0	0	61	1	4	0	12	6	74	8	0	166
	4:30 PM	0	0	0	46	1	5	0	15	8	90	18	0	183
	4:45 PM	0	0	0	63	1	6	0	16	9	87	7	0	189
	5:00 PM	0	0	0	55	0	2	0	9	6	88	7	0	167
	5:15 PM	0	0	0	66	1	2	0	8	4	86	3	0	170
	5:30 PM	0	0	0	59	2	2	0	8	4	86	11	0	172
	5:45 PM	0	0	0	53	0	2	0	6	2	72	7	0	142
	VOLUMES	0	0	0	464	8	28	0	88	47	656	79	0	1,370
	APPROACH %	0%	0%	0%	93%	2%	6%	0%	65%	35%	89%	11%	0%	
	APP/DEPART	0	/	0	500	/	711	135	/	552	735	/	107	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	0	0	231	5	20	0	57	31	324	51	0	719
	APPROACH %	0%	0%	0%	90%	2%	8%	0%	65%	35%	86%	14%	0%	
	PEAK HR FACTOR		0.000			0.914			0.880			0.868		0.951
	APP/DEPART	0	/	0	256	/	360	88	/	288	375	/	71	0

AimTD LLC

TURNING MOVEMENT COUNTS





INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:					
Wed, Dec 9, 20	LOCATION:	Calimesa	PROJECT #:	SC	
	NORTH & SOUTH:	I-10 NB Ramps	LOCATION #:	1	
	EAST & WEST:	Sandalwood	CONTROL:	NO CONTROL	

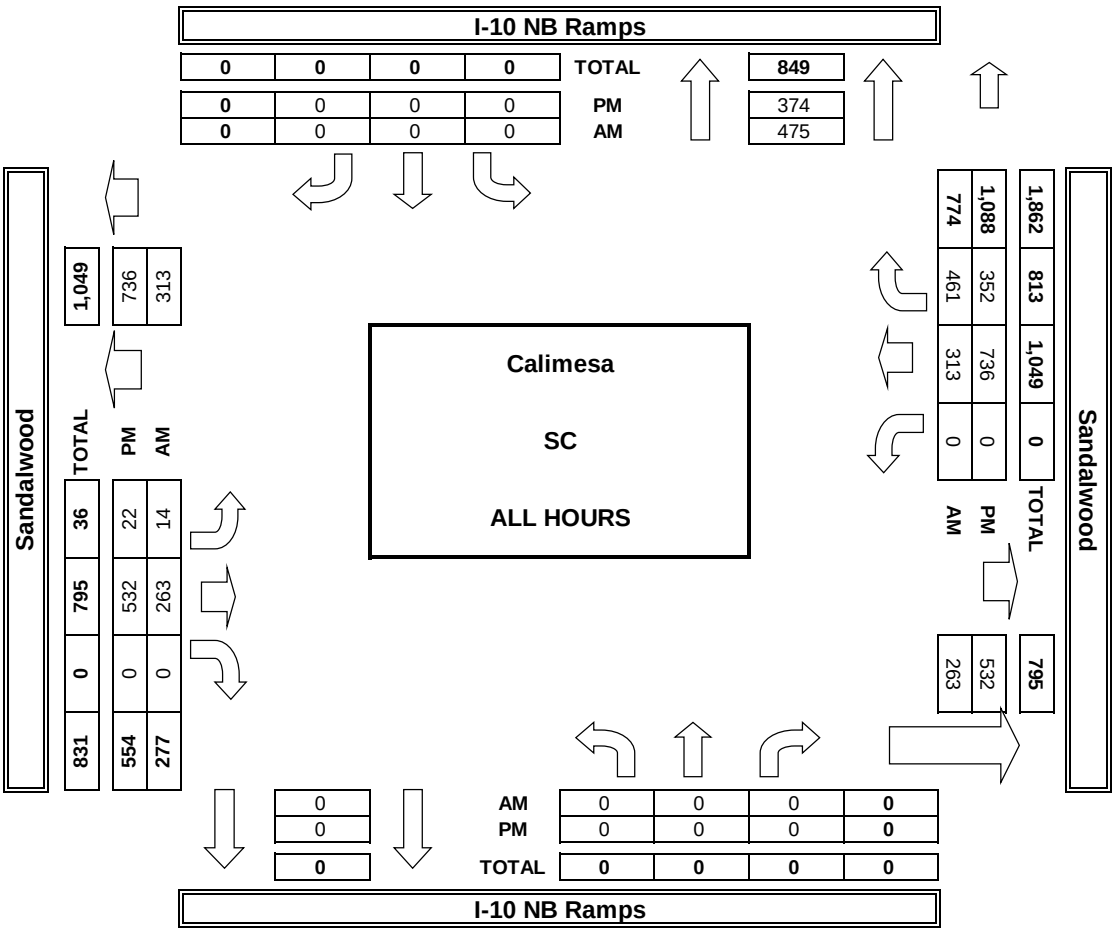
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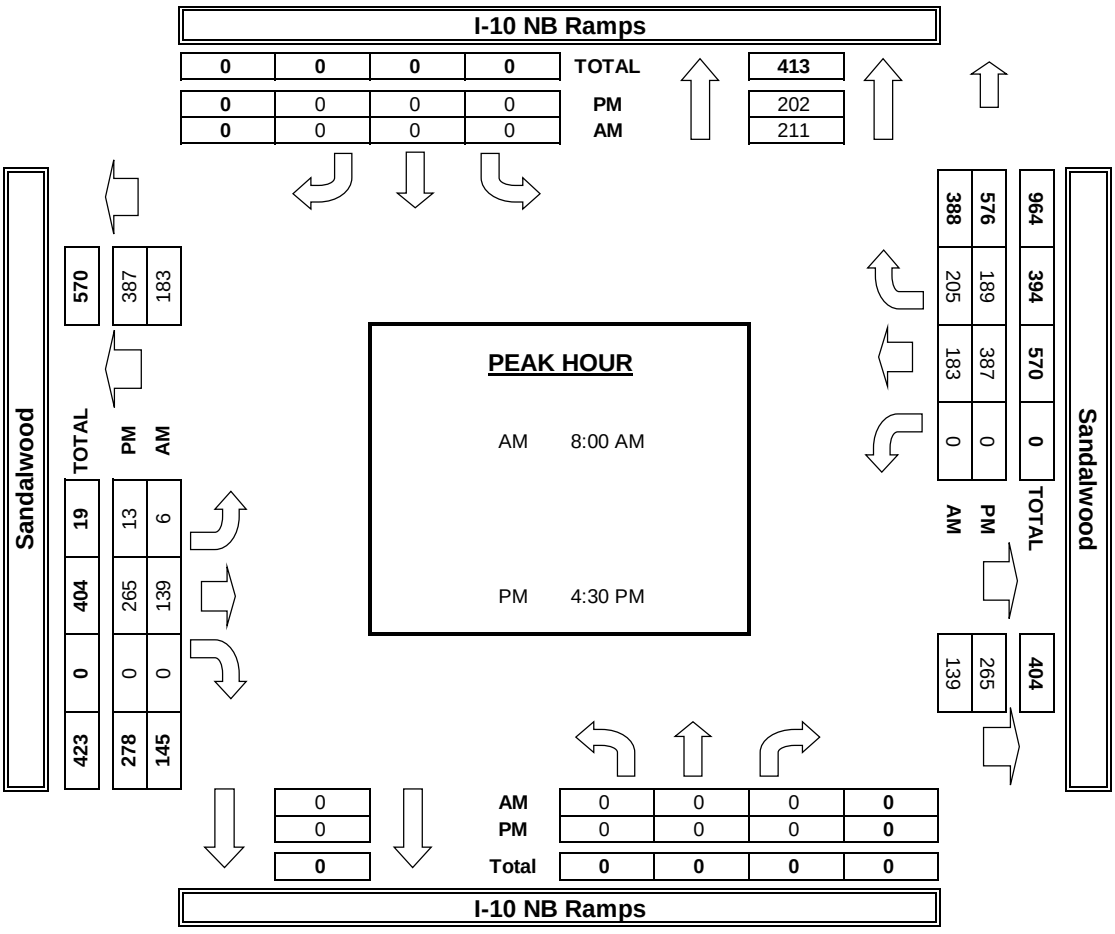
AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND I-10 NB Ramps			SOUTHBOUND I-10 NB Ramps			EASTBOUND Sandalwood			WESTBOUND Sandalwood			
	LANES:	NL X	NT X	NR X	SL X	ST X	SR X	EL 0	ET 1	ER X	WL X	WT 1	WR 0	TOTAL
AM	7:00 AM	0	0	0	0	0	0	2	33	0	0	24	60	119
	7:15 AM	0	0	0	0	0	0	4	23	0	0	38	72	137
	7:30 AM	0	0	0	0	0	0	1	27	0	0	31	64	123
	7:45 AM	0	0	0	0	0	0	1	41	0	0	37	60	139
	8:00 AM	0	0	0	0	0	0	2	33	0	0	36	60	131
	8:15 AM	0	0	0	0	0	0	0	35	0	0	42	56	133
	8:30 AM	0	0	0	0	0	0	4	22	0	0	55	44	125
	8:45 AM	0	0	0	0	0	0	0	49	0	0	50	45	144
	VOLUMES	0	0	0	0	0	0	14	263	0	0	313	461	1,051
	APPROACH %	0%	0%	0%	0%	0%	0%	5%	95%	0%	0%	40%	60%	
	APP/DEPART	0	/	475	0	/	0	277	/	263	774	/	313	0
	BEGIN PEAK HR		8:00 AM											
	VOLUMES	0	0	0	0	0	0	6	139	0	0	183	205	533
	APPROACH %	0%	0%	0%	0%	0%	0%	4%	96%	0%	0%	47%	53%	
	PEAK HR FACTOR		0.000			0.000			0.740			0.980		0.925
	APP/DEPART	0	/	211	0	/	0	145	/	139	388	/	183	0
PM	4:00 PM	0	0	0	0	0	0	1	74	0	0	91	47	213
	4:15 PM	0	0	0	0	0	0	3	70	0	0	82	37	192
	4:30 PM	0	0	0	0	0	0	4	57	0	0	108	55	224
	4:45 PM	0	0	0	0	0	0	4	75	0	0	95	44	218
	5:00 PM	0	0	0	0	0	0	5	59	0	0	95	52	211
	5:15 PM	0	0	0	0	0	0	0	74	0	0	89	38	201
	5:30 PM	0	0	0	0	0	0	4	65	0	0	97	44	210
	5:45 PM	0	0	0	0	0	0	1	58	0	0	79	35	173
	VOLUMES	0	0	0	0	0	0	22	532	0	0	736	352	1,642
	APPROACH %	0%	0%	0%	0%	0%	0%	4%	96%	0%	0%	68%	32%	
	APP/DEPART	0	/	374	0	/	0	554	/	532	1,088	/	736	0
	BEGIN PEAK HR		4:30 PM											
	VOLUMES	0	0	0	0	0	0	13	265	0	0	387	189	854
	APPROACH %	0%	0%	0%	0%	0%	0%	5%	95%	0%	0%	67%	33%	
	PEAK HR FACTOR		0.000			0.000			0.880			0.883		0.953
	APP/DEPART	0	/	202	0	/	0	278	/	265	576	/	387	0

AimTD LLC

TURNING MOVEMENT COUNTS





INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:					
Wed, Dec 9, 20	LOCATION:	Calimesa	PROJECT #:	SC	
	NORTH & SOUTH:	Calimesa	LOCATION #:	4	
	EAST & WEST:	Sandalwood	CONTROL:	SIGNAL	

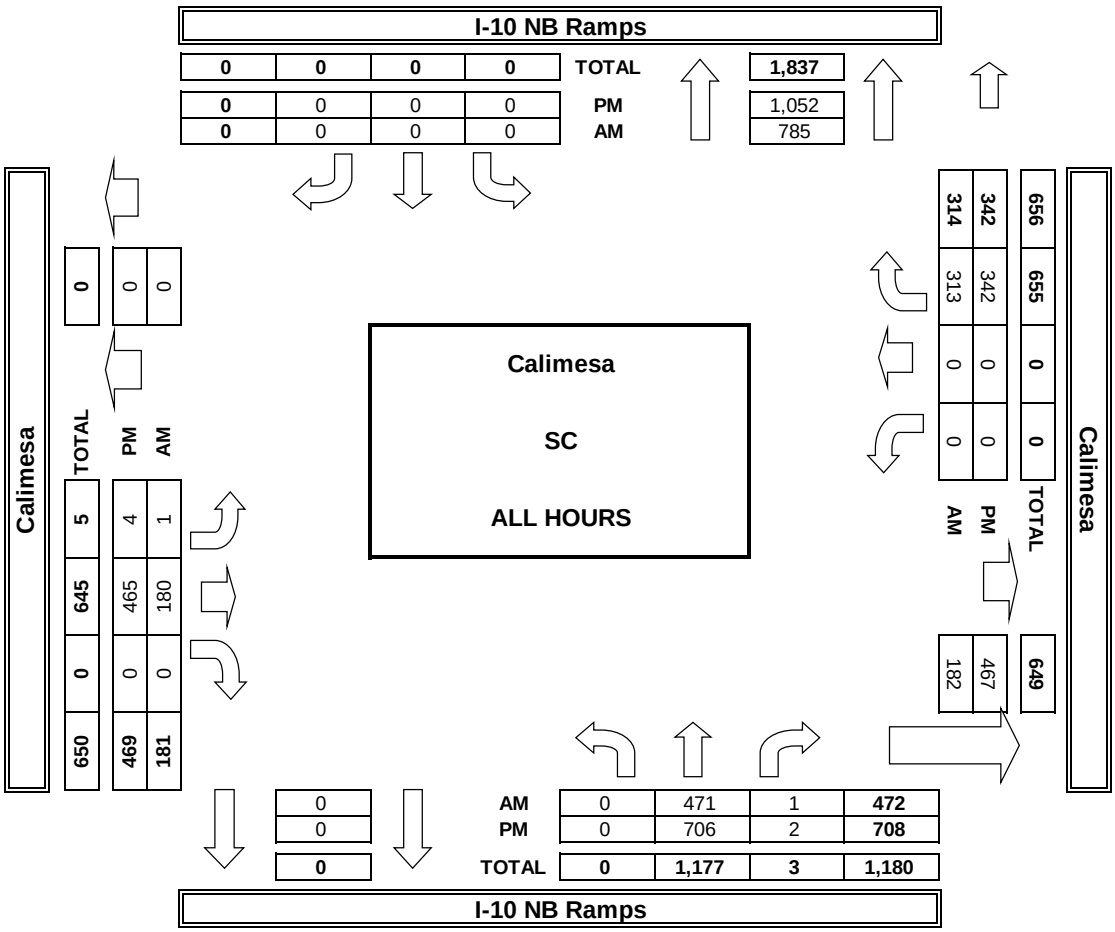
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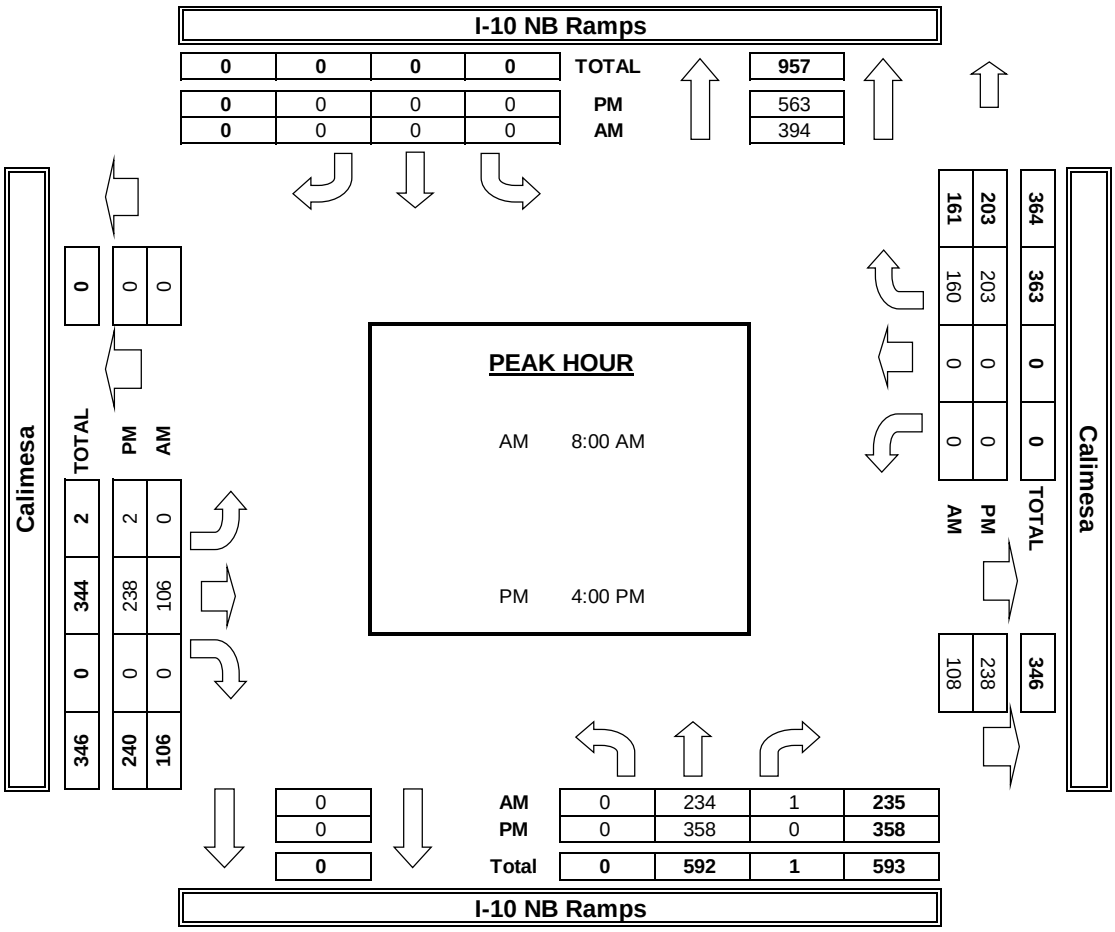
AM / PM / MD / OTHER / OTHER — ▲ N ◄ W E ► S ▼

		NORTHBOUND Calimesa			SOUTHBOUND Calimesa			EASTBOUND Sandalwood			WESTBOUND Sandalwood			
	LANES:	NL 1	NT 1.5	NR 0.5	SL 1	ST 1	SR 1	EL 1.5	ET 1	ER 0.5	WL 1	WT 1	WR 1	TOTAL
AM	7:00 AM	29	38	19	1	3	32	7	11	18	1	28	4	191
	7:15 AM	28	52	23	2	7	45	8	11	7	5	32	3	223
	7:30 AM	25	50	21	6	2	40	8	11	4	4	27	2	200
	7:45 AM	30	56	21	5	12	46	17	14	8	4	24	1	238
	8:00 AM	18	54	25	2	5	39	17	11	8	11	37	1	228
	8:15 AM	16	51	34	9	8	38	12	13	8	6	39	8	242
	8:30 AM	22	51	24	6	7	46	10	5	9	8	36	3	227
	8:45 AM	15	63	21	3	16	47	25	12	12	8	34	4	260
	VOLUMES	183	415	188	34	60	333	104	88	74	47	257	26	1,809
	APPROACH %	23%	53%	24%	8%	14%	78%	39%	33%	28%	14%	78%	8%	
	APP/DEPART	786	/	546	427	/	181	266	/	309	330	/	773	0
	BEGIN PEAK HR		8:00 AM											
	VOLUMES	71	219	104	20	36	170	64	41	37	33	146	16	957
	APPROACH %	18%	56%	26%	9%	16%	75%	45%	29%	26%	17%	75%	8%	
	PEAK HR FACTOR		0.975			0.856			0.724			0.920		0.920
	APP/DEPART	394	/	299	226	/	106	142	/	165	195	/	387	0
PM	4:00 PM	34	81	43	8	25	76	39	17	19	11	38	7	398
	4:15 PM	18	71	28	7	36	76	25	18	26	11	33	3	352
	4:30 PM	27	75	45	7	31	86	28	14	15	8	44	8	388
	4:45 PM	11	87	45	7	32	79	35	28	15	9	38	2	388
	5:00 PM	20	79	32	6	31	88	26	14	24	11	34	7	372
	5:15 PM	14	74	44	6	27	73	21	22	20	7	50	3	361
	5:30 PM	15	64	35	11	28	80	30	14	24	6	41	7	355
	5:45 PM	9	76	30	11	24	78	25	16	19	4	26	3	321
	VOLUMES	148	607	302	63	234	636	229	143	162	67	304	40	2,935
	APPROACH %	14%	57%	29%	7%	25%	68%	43%	27%	30%	16%	74%	10%	
	APP/DEPART	1,057	/	877	933	/	463	534	/	507	411	/	1,088	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	90	314	161	29	124	317	127	77	75	39	153	20	1,526
	APPROACH %	16%	56%	28%	6%	26%	67%	46%	28%	27%	18%	72%	9%	
	PEAK HR FACTOR		0.894			0.948			0.894			0.883		0.959
	APP/DEPART	565	/	461	470	/	238	279	/	267	212	/	560	0

AimTD LLC

TURNING MOVEMENT COUNTS





INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Calimesa	PROJECT #:	SC
Wed, Dec 9, 20	NORTH & SOUTH:	I-10 NB Ramps	LOCATION #:	5
	EAST & WEST:	Calimesa	CONTROL:	STOP ALL

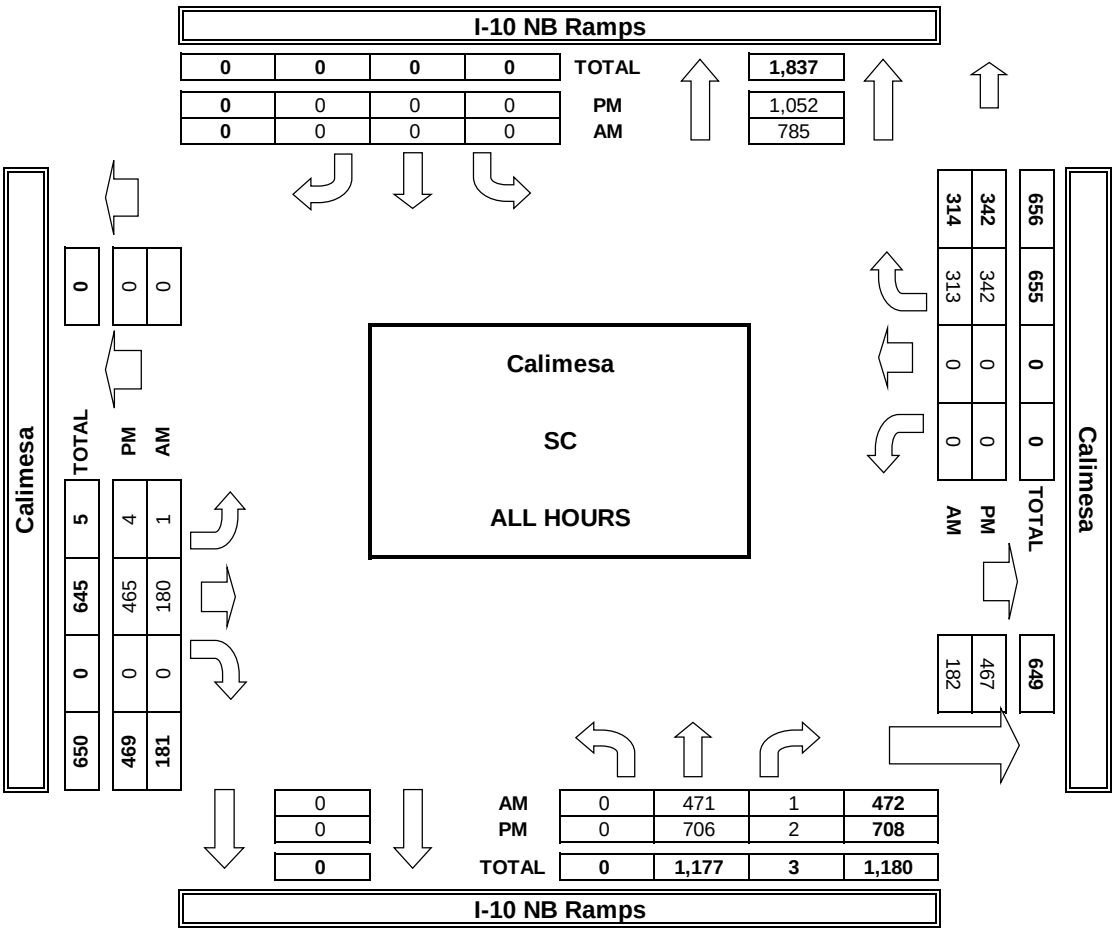
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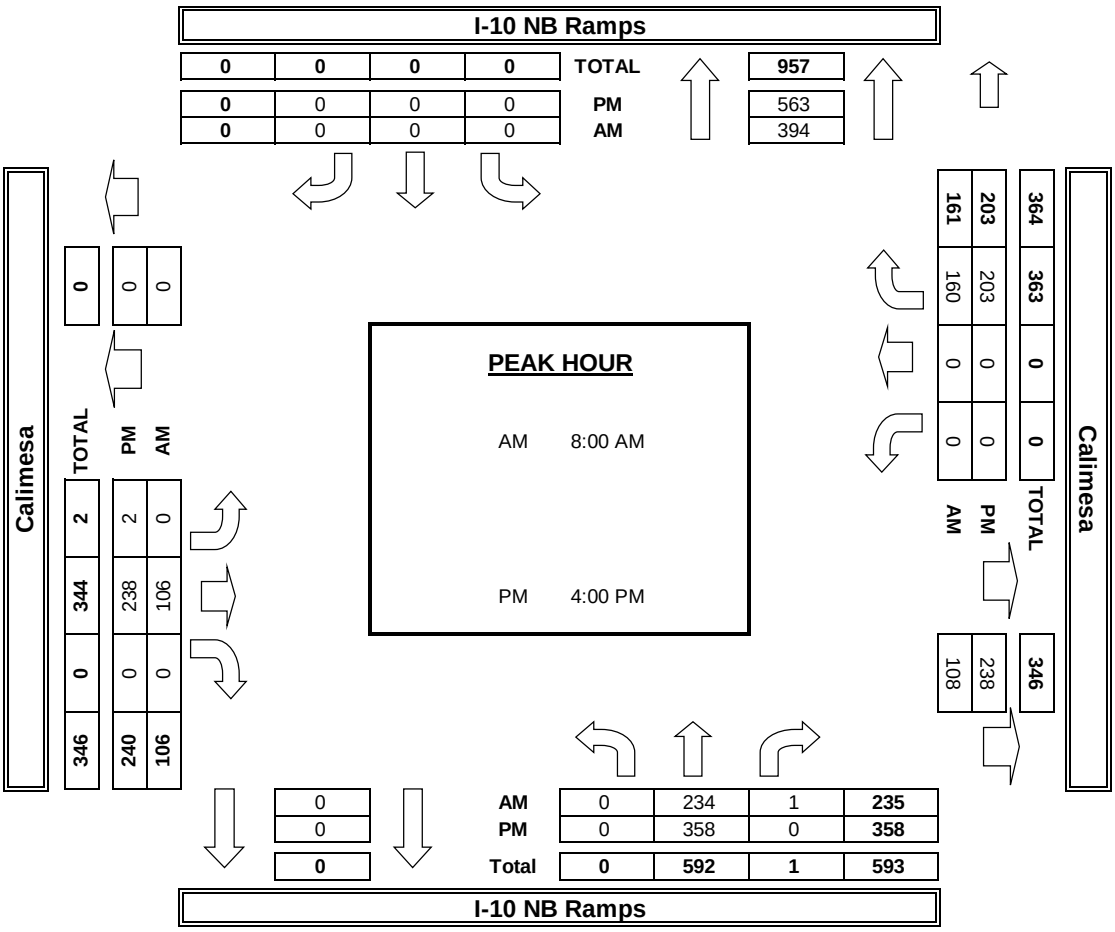
AM / PM / MD / OTHER / OTHER — ▲ N ◄ W E ► S ▼

		NORTHBOUND I-10 NB Ramps			SOUTHBOUND I-10 NB Ramps			EASTBOUND Calimesa			WESTBOUND Calimesa			
	LANES:	NL X	NT 1	NR 0	SL X	ST X	SR X	EL 0	ET 1	ER X	WL X	WT X	WR 1	TOTAL
AM	7:00 AM	0	41	0	0	0	0	0	23	0	0	0	42	106
	7:15 AM	0	70	0	0	0	0	0	20	0	0	0	40	130
	7:30 AM	0	60	0	0	0	0	0	11	0	0	0	30	101
	7:45 AM	0	66	0	0	0	0	1	20	0	0	0	41	128
	8:00 AM	0	60	0	0	0	0	0	23	0	0	0	39	122
	8:15 AM	0	54	0	0	0	0	0	23	0	0	0	40	117
	8:30 AM	0	56	0	0	0	0	0	21	0	0	0	46	123
	8:45 AM	0	64	1	0	0	0	0	39	0	0	0	35	139
	VOLUMES	0	471	1	0	0	0	1	180	0	0	0	313	967
	APPROACH %	0%	100%	0%	0%	0%	0%	1%	99%	0%	0%	0%	100%	
	APP/DEPART	472	/	785	0	/	0	181	/	182	314	/	0	0
	BEGIN PEAK HR		8:00 AM											
	VOLUMES	0	234	1	0	0	0	0	106	0	0	0	160	502
	APPROACH %	0%	100%	0%	0%	0%	0%	0%	100%	0%	0%	0%	99%	
	PEAK HR FACTOR		0.904			0.000			0.679			0.875		0.896
	APP/DEPART	235	/	394	0	/	0	106	/	108	161	/	0	0
PM	4:00 PM	0	83	0	0	0	0	1	53	0	0	0	64	201
	4:15 PM	0	74	0	0	0	0	0	75	0	0	0	44	193
	4:30 PM	0	88	0	0	0	0	1	50	0	0	0	61	200
	4:45 PM	0	113	0	0	0	0	0	60	0	0	0	34	207
	5:00 PM	0	83	0	0	0	0	1	62	0	0	0	40	186
	5:15 PM	0	94	0	0	0	0	0	54	0	0	0	39	187
	5:30 PM	0	88	2	0	0	0	0	61	0	0	0	32	183
	5:45 PM	0	83	0	0	0	0	1	50	0	0	0	28	162
	VOLUMES	0	706	2	0	0	0	4	465	0	0	0	342	1,519
	APPROACH %	0%	100%	0%	0%	0%	0%	1%	99%	0%	0%	0%	100%	
	APP/DEPART	708	/	1,052	0	/	0	469	/	467	342	/	0	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	358	0	0	0	0	2	238	0	0	0	203	801
	APPROACH %	0%	100%	0%	0%	0%	0%	1%	99%	0%	0%	0%	100%	
	PEAK HR FACTOR		0.792			0.000			0.800			0.793		0.967
	APP/DEPART	358	/	563	0	/	0	240	/	238	203	/	0	0

AimTD LLC

TURNING MOVEMENT COUNTS





APPENDIX D

LEVEL OF SERVICE WORKSHEETS

Existing

Sandalwood Travel Center

Vistro File: C:\...\AME.vistro
Report File: C:\...\AME.pdf

Scenario 1 Existing AM Peak Hour
2/21/2021

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
4	7th St (NS) at Sandalwood Dr (EW)	All-way stop	HCM 6th Edition	NB Left	0.145	8.4	A
5	I-10 SB Ramps (NS) at Sandalwood Dr (EW)	All-way stop	HCM 6th Edition	SB Left	0.653	14.5	B
6	I-15 NB On-Ramp (NS) at Sandalwood Dr (EW)	Two-way stop	HCM 6th Edition	EB Left	0.025	10.8	B
7	Calimesa Blvd (NS) at Sandalwood Dr (EW)	Signalized	HCM 6th Edition	SB Left	0.566	26.3	C
8	I-10 NB Off-Ramp (NS) at Calimesa Blvd (EW)	All-way stop	HCM 6th Edition	NB Thru	0.816	17.5	C

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 4: 7th St (NS) at Sandalwood Dr (EW)

Control Type:	All-way stop	Delay (sec / veh):	8.4
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.145

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	0	0	0
Pocket Length [ft]	115.00	100.00	100.00	100.00	100.00	100.00	200.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00			25.00			25.00			25.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	24	64	13	3	98	5	3	0	8	8	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	71	0	0	0	0	0	0	0	60	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	95	64	13	3	98	5	3	0	68	8	0	0
Peak Hour Factor	0.8170	0.8170	0.8170	0.8170	0.8170	0.8170	0.8170	1.0000	0.8170	0.8170	0.8170	0.8170
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	29	20	4	1	30	2	1	0	21	2	0	0
Total Analysis Volume [veh/h]	116	78	16	4	120	6	4	0	83	10	0	0
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	658	724	842	643	711	625	788	641
Degree of Utilization, x	0.14	0.09	0.02	0.00	0.14	0.00	0.09	0.01

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	0.51	0.29	0.05	0.01	0.51	0.01	0.28	0.04
95th-Percentile Queue Length [ft]	12.64	7.27	1.18	0.35	12.69	0.36	7.08	0.95
Approach Delay [s/veh]	8.59			8.61		7.73		8.69
Approach LOS	A			A		A		A
Intersection Delay [s/veh]	8.43							
Intersection LOS	A							

Intersection Level Of Service Report
Intersection 5: I-10 SB Ramps (NS) at Sandalwood Dr (EW)

Control Type:	All-way stop	Delay (sec / veh):	14.5
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.653

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]		30.00			30.00			25.00			25.00	
Grade [%]		0.00			0.00			0.00			0.00	
Crosswalk		No			Yes			No			No	

Volumes

Name												
Base Volume Input [veh/h]	0	0	0	321	11	40	0	64	50	417	64	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	60	0	0	71	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	0	321	11	40	0	124	50	417	135	0
Peak Hour Factor	1.0000	1.0000	1.0000	0.8670	0.8670	0.8670	1.0000	0.8670	0.8670	0.8670	0.8670	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	0	93	3	12	0	36	14	120	39	0
Total Analysis Volume [veh/h]	0	0	0	370	13	46	0	143	58	481	156	0
Pedestrian Volume [ped/h]		0			0			0			0	

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]		642	838	846
Degree of Utilization, x		0.58	0.21	0.65

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]		4.02	0.78	5.43
95th-Percentile Queue Length [ft]		100.44	19.62	135.87
Approach Delay [s/veh]	0.00	16.27	8.42	15.15
Approach LOS	A	C	A	C
Intersection Delay [s/veh]	14.46			
Intersection LOS	B			

Intersection Level Of Service Report
Intersection 6: I-15 NB On-Ramp (NS) at Sandalwood Dr (EW)

Control Type:	Two-way stop	Delay (sec / veh):	10.8
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.025

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		25.00		25.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		No		No	

Volumes

Name						
Base Volume Input [veh/h]	0	0	16	369	486	545
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	60	71	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	16	429	557	545
Peak Hour Factor	1.0000	1.0000	0.9250	0.9250	0.9250	0.9250
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	4	116	151	147
Total Analysis Volume [veh/h]	0	0	17	464	602	589
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane			
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			
Number of Storage Spaces in Median	0	0	0

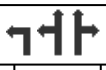
Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.03	0.00	0.01	0.01
d_M, Delay for Movement [s/veh]	0.00	0.00	10.83	0.00	0.00	0.00
Movement LOS			B	A	A	A
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.08	0.08	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.00	0.00	1.94	1.94	0.00	0.00
d_A, Approach Delay [s/veh]	0.00		0.39		0.00	
Approach LOS	A		A		A	
d_I, Intersection Delay [s/veh]	0.11					
Intersection LOS	B					

Intersection Level Of Service Report
Intersection 7: Calimesa Blvd (NS) at Sandalwood Dr (EW)

Control Type:	Signalized	Delay (sec / veh):	26.3
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.566

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	0
Pocket Length [ft]	125.00	100.00	100.00	75.00	100.00	100.00	50.00	100.00	100.00	50.00	100.00	100.00
Speed [mph]	35.00			35.00			25.00			25.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			No			Yes		

Volumes

Name												
Base Volume Input [veh/h]	189	582	276	53	96	452	170	109	98	88	388	43
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	6	5	55	0	0	65	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	189	582	276	53	96	458	175	164	98	88	453	43
Peak Hour Factor	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	51	158	75	14	26	124	48	45	27	24	123	12
Total Analysis Volume [veh/h]	205	633	300	58	104	498	190	178	107	96	492	47
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	80
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap	Split	Split	Split	Split	Split	Split
Signal group	5	2	0	1	6	6	0	8	0	0	4	0
Auxiliary Signal Groups						6,8						
Lead / Lag	Lead	-	-	Lead	-	-	-	-	-	-	-	-
Minimum Green [s]	7	7	0	7	7	7	0	7	0	0	7	0
Maximum Green [s]	120	120	0	120	120	120	0	120	0	0	120	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	3.0	0.0	3.0	0.0	0.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	1.0	0.0	1.0	0.0	0.0	1.0	0.0
Split [s]	17	21	0	13	17	17	0	21	0	0	25	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	3.0	0.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	7	0	0	7	7	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	10	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	2.0	0.0	2.0	0.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	2.0	0.0	2.0	0.0	0.0	2.0	0.0
Minimum Recall	No	No		No	No	No		No			No	
Maximum Recall	No	No		No	No	No		No			No	
Pedestrian Recall	No	No		No	No	No		No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	C	L	C	R
C, Cycle Length [s]	80	80	80	80	80	80	80	80	80	80	80	80
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	0.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	13	28	28	5	20	51	10	10	10	21	21	21
g / C, Green / Cycle	0.16	0.35	0.35	0.06	0.24	0.64	0.13	0.13	0.13	0.26	0.26	0.26
(v / s)_i Volume / Saturation Flow Rate	0.13	0.16	0.17	0.03	0.05	0.29	0.08	0.08	0.09	0.05	0.24	0.03
s, saturation flow rate [veh/h]	1417	3560	1589	1781	1870	1589	1781	1856	1502	1781	1870	1589
c, Capacity [veh/h]	291	1228	548	112	458	1014	233	243	197	467	491	417
d1, Uniform Delay [s]	34.14	20.62	20.88	36.39	24.17	7.40	33.19	33.15	33.25	23.01	28.87	22.48
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.11	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	2.47	1.32	3.32	3.12	1.04	0.32	3.06	2.84	3.86	0.19	8.96	0.11
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.65	0.47	0.50	0.47	0.21	0.45	0.65	0.64	0.66	0.19	0.92	0.10
d, Delay for Lane Group [s/veh]	36.61	21.94	24.19	39.51	25.21	7.71	36.25	35.99	37.12	23.20	37.83	22.59
Lane Group LOS	D	C	C	D	C	A	D	D	D	C	D	C
Critical Lane Group	Yes	No	No	No	No	Yes	No	No	No	No	Yes	No
50th-Percentile Queue Length [veh/ln]	3.69	4.21	4.33	1.07	1.52	3.28	2.96	3.03	2.59	1.30	9.46	0.62
50th-Percentile Queue Length [ft/ln]	92.26	105.33	108.36	26.72	38.01	81.91	73.95	75.72	64.86	32.51	236.45	15.53
95th-Percentile Queue Length [veh/ln]	6.64	7.58	7.75	1.92	2.74	5.90	5.32	5.45	4.67	2.34	14.50	1.12
95th-Percentile Queue Length [ft/ln]	166.08	189.48	193.71	48.09	68.42	147.43	133.10	136.30	116.75	58.52	362.53	27.96

Movement, Approach, & Intersection Results

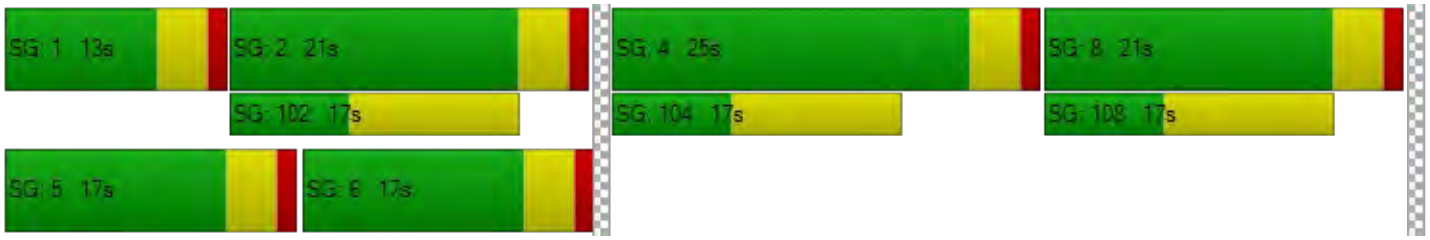
d_M, Delay for Movement [s/veh]	36.61	21.94	24.19	39.51	25.21	7.71	36.21	36.21	37.12	23.20	37.83	22.59
Movement LOS	D	C	C	D	C	A	D	D	D	C	D	C
d_A, Approach Delay [s/veh]	25.18			13.26			36.42			34.50		
Approach LOS	C			B			D			C		
d_I, Intersection Delay [s/veh]	26.35											
Intersection LOS	C											
Intersection V/C	0.566											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	0.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	29.76	29.76	0.00	29.76
l_p,int, Pedestrian LOS Score for Intersection	2.596	2.613	0.000	2.468
Crosswalk LOS	B	B	F	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	425	325	425	525
d_b, Bicycle Delay [s]	24.81	28.06	24.81	21.76
l_b,int, Bicycle LOS Score for Intersection	2.423	2.561	1.920	2.523
Bicycle LOS	B	B	A	B

Sequence

Ring 1	1	2	4	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 8: I-10 NB Off-Ramp (NS) at Calimesa Blvd (EW)

Control Type:	All-way stop	Delay (sec / veh):	17.5
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.816

Intersection Setup

Name											
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]		35.00			30.00			35.00			35.00	
Grade [%]		0.00			0.00			0.00			0.00	
Crosswalk		No			No			No			No	

Volumes

Name												
Base Volume Input [veh/h]	0	622	3	0	0	0	0	282	0	0	0	425
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	622	3	0	0	0	0	282	0	0	0	425
Peak Hour Factor	1.0000	0.8960	0.8960	1.0000	1.0000	1.0000	1.0000	0.8960	1.0000	1.0000	1.0000	0.8960
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	174	1	0	0	0	0	79	0	0	0	119
Total Analysis Volume [veh/h]	0	694	3	0	0	0	0	315	0	0	0	474
Pedestrian Volume [ped/h]		0			0			0			0	

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	766		845	1080
Degree of Utilization, x	0.82		0.33	0.39

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	11.43		1.49	1.94
95th-Percentile Queue Length [ft]	285.70		37.34	48.39
Approach Delay [s/veh]	27.33	0.00	9.39	8.49
Approach LOS	D	A	A	A
Intersection Delay [s/veh]	17.52			
Intersection LOS	C			

Sandalwood Travel Center

Vistro File: C:\...\PME.vistro
Report File: C:\...\PME.pdf

Scenario 1 Existing PM Peak Hour
2/21/2021

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
4	7th St (NS) at Sandalwood Dr (EW)	All-way stop	HCM 6th Edition	WB Left	0.113	7.9	A
5	I-10 SB Ramps (NS) at Sandalwood Dr (EW)	All-way stop	HCM 6th Edition	SB Left	0.511	11.2	B
6	I-15 NB On-Ramp (NS) at Sandalwood Dr (EW)	Two-way stop	HCM 6th Edition	EB Left	0.016	8.9	A
7	Calimesa Blvd (NS) at Sandalwood Dr (EW)	Signalized	HCM 6th Edition	SB Left	0.350	19.4	B
8	I-10 NB Off-Ramp (NS) at Calimesa Blvd (EW)	All-way stop	HCM 6th Edition	NB Thru	0.481	9.6	A

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 4: 7th St (NS) at Sandalwood Dr (EW)

Control Type:	All-way stop	Delay (sec / veh):	7.9
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.113

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	0	0	0
Pocket Length [ft]	115.00	100.00	100.00	100.00	100.00	100.00	200.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00			25.00			25.00			25.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	6	59	11	0	81	4	2	0	7	4	1	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	19	0	0	0	0	0	0	0	20	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	25	59	11	0	81	4	2	0	27	4	1	0
Peak Hour Factor	0.8980	0.8980	0.8980	0.8980	0.8980	0.8980	0.8980	1.0000	0.8980	0.8980	0.8980	0.8980
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	7	16	3	0	23	1	1	0	8	1	0	0
Total Analysis Volume [veh/h]	28	66	12	0	90	4	2	0	30	4	1	0
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	680	751	879	749	755	654	837	689
Degree of Utilization, x	0.04	0.08	0.01	0.00	0.11	0.00	0.03	0.01

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	0.11	0.26	0.04	0.00	0.38	0.01	0.10	0.02
95th-Percentile Queue Length [ft]	2.86	6.39	0.95	0.00	9.51	0.23	2.50	0.55
Approach Delay [s/veh]	7.86			8.08		7.22		8.26
Approach LOS	A			A		A		A
Intersection Delay [s/veh]	7.87							
Intersection LOS	A							

Intersection Level Of Service Report
Intersection 5: I-10 SB Ramps (NS) at Sandalwood Dr (EW)

Control Type:	All-way stop	Delay (sec / veh):	11.2
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.511

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]		30.00			30.00			25.00			25.00	
Grade [%]		0.00			0.00			0.00			0.00	
Crosswalk		No			Yes			No			No	

Volumes

Name												
Base Volume Input [veh/h]	0	0	0	258	6	22	0	64	35	361	57	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	20	0	0	19	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	0	258	6	22	0	84	35	361	76	0
Peak Hour Factor	1.0000	1.0000	1.0000	0.9510	0.9510	0.9510	1.0000	0.9510	0.9510	0.9510	0.9510	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	0	68	2	6	0	22	9	95	20	0
Total Analysis Volume [veh/h]	0	0	0	271	6	23	0	88	37	380	80	0
Pedestrian Volume [ped/h]		0			0			0			0	

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]		683	861	855
Degree of Utilization, x		0.42	0.14	0.51

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]		2.14	0.48	3.09
95th-Percentile Queue Length [ft]		53.48	12.00	77.36
Approach Delay [s/veh]	0.00	12.06	7.85	11.60
Approach LOS	A	B	A	B
Intersection Delay [s/veh]	11.23			
Intersection LOS	B			

Intersection Level Of Service Report
Intersection 6: I-15 NB On-Ramp (NS) at Sandalwood Dr (EW)

Control Type:	Two-way stop	Delay (sec / veh):	8.9
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.016

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		25.00		25.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		No		No	

Volumes

Name						
Base Volume Input [veh/h]	0	0	15	296	432	211
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	20	19	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	15	316	451	211
Peak Hour Factor	1.0000	1.0000	0.9530	0.9530	0.9530	0.9530
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	4	83	118	55
Total Analysis Volume [veh/h]	0	0	16	332	473	221
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Stop		Free		Free	
Flared Lane						
Storage Area [veh]	0		0		0	
Two-Stage Gap Acceptance						
Number of Storage Spaces in Median	0		0		0	

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.02	0.00	0.00	0.00
d_M, Delay for Movement [s/veh]	0.00	0.00	8.95	0.00	0.00	0.00
Movement LOS			A	A	A	A
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.05	0.05	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.00	0.00	1.23	1.23	0.00	0.00
d_A, Approach Delay [s/veh]	0.00		0.41		0.00	
Approach LOS	A		A		A	
d_I, Intersection Delay [s/veh]	0.14					
Intersection LOS	A					

Intersection Level Of Service Report
Intersection 7: Calimesa Blvd (NS) at Sandalwood Dr (EW)

Control Type:	Signalized	Delay (sec / veh):	19.4
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.350

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	0
Pocket Length [ft]	125.00	100.00	100.00	75.00	100.00	100.00	50.00	100.00	100.00	50.00	100.00	100.00
Speed [mph]	35.00			35.00			25.00			25.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			No			Yes		

Volumes

Name												
Base Volume Input [veh/h]	100	350	180	32	138	354	142	86	84	44	171	22
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	2	2	18	0	0	17	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	100	350	180	32	138	356	144	104	84	44	188	22
Peak Hour Factor	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	26	91	47	8	36	93	38	27	22	11	49	6
Total Analysis Volume [veh/h]	104	365	188	33	144	371	150	108	88	46	196	23
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	75
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap	Split	Split	Split	Split	Split	Split
Signal group	5	2	0	1	6	6	0	8	0	0	4	0
Auxiliary Signal Groups						6,8						
Lead / Lag	Lead	-	-	Lead	-	-	-	-	-	-	-	-
Minimum Green [s]	7	7	0	7	7	7	0	7	0	0	7	0
Maximum Green [s]	120	120	0	120	120	120	0	120	0	0	120	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	3.0	0.0	3.0	0.0	0.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	1.0	0.0	1.0	0.0	0.0	1.0	0.0
Split [s]	12	21	0	12	21	21	0	21	0	0	21	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	3.0	0.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	7	0	0	7	7	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	10	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	2.0	0.0	2.0	0.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	2.0	0.0	2.0	0.0	0.0	2.0	0.0
Minimum Recall	No	No		No	No	No		No			No	
Maximum Recall	No	No		No	No	No		No			No	
Pedestrian Recall	No	No		No	No	No		No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	C	L	C	R
C, Cycle Length [s]	75	75	75	75	75	75	75	75	75	75	75	75
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	0.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	8	37	37	3	33	57	9	9	9	10	10	10
g / C, Green / Cycle	0.11	0.50	0.50	0.05	0.44	0.76	0.11	0.11	0.11	0.13	0.13	0.13
(v / s)_i Volume / Saturation Flow Rate	0.07	0.10	0.11	0.02	0.07	0.22	0.06	0.06	0.07	0.02	0.10	0.01
s, saturation flow rate [veh/h]	1417	3560	1589	1781	1870	1589	1781	1847	1481	1781	1870	1589
c, Capacity [veh/h]	205	1773	791	82	822	1215	203	210	169	230	241	205
d1, Uniform Delay [s]	34.42	10.50	10.68	34.79	12.74	2.68	31.52	31.49	31.60	29.21	31.67	28.89
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.11	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	1.80	0.25	0.67	3.01	0.44	0.13	2.51	2.33	3.29	0.40	5.61	0.23
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.49	0.20	0.23	0.39	0.17	0.29	0.57	0.56	0.59	0.19	0.78	0.11
d, Delay for Lane Group [s/veh]	36.22	10.75	11.34	37.80	13.18	2.82	34.03	33.82	34.90	29.61	37.29	29.12
Lane Group LOS	D	B	B	D	B	A	C	C	C	C	D	C
Critical Lane Group	Yes	No	No	No	No	Yes	No	No	No	No	Yes	No
50th-Percentile Queue Length [veh/ln]	1.84	1.49	1.64	0.62	1.38	0.87	2.09	2.12	1.84	0.73	3.62	0.36
50th-Percentile Queue Length [ft/ln]	45.90	37.15	40.93	15.39	34.51	21.67	52.20	53.06	45.96	18.13	90.45	8.97
95th-Percentile Queue Length [veh/ln]	3.30	2.67	2.95	1.11	2.48	1.56	3.76	3.82	3.31	1.31	6.51	0.65
95th-Percentile Queue Length [ft/ln]	82.62	66.87	73.67	27.70	62.12	39.00	93.96	95.50	82.73	32.64	162.80	16.15

Movement, Approach, & Intersection Results

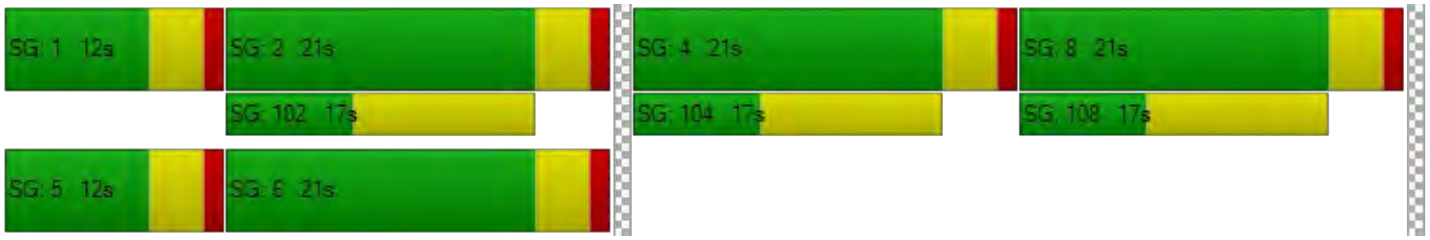
d_M, Delay for Movement [s/veh]	36.22	10.75	11.34	37.80	13.18	2.82	33.98	33.98	34.90	29.61	37.29	29.12
Movement LOS	D	B	B	D	B	A	C	C	C	C	D	C
d_A, Approach Delay [s/veh]	14.96			7.66			34.22			35.25		
Approach LOS	B			A			C			D		
d_I, Intersection Delay [s/veh]	19.39											
Intersection LOS	B											
Intersection V/C	0.350											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	0.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	27.31	27.31	0.00	27.31
l_p,int, Pedestrian LOS Score for Intersection	2.494	2.527	0.000	2.382
Crosswalk LOS	B	B	F	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	453	453	453	453
d_b, Bicycle Delay [s]	22.43	22.43	22.43	22.43
l_b,int, Bicycle LOS Score for Intersection	2.079	2.428	1.834	1.979
Bicycle LOS	B	B	A	A

Sequence

Ring 1	1	2	4	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 8: I-10 NB Off-Ramp (NS) at Calimesa Blvd (EW)

Control Type:	All-way stop	Delay (sec / veh):	9.6
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.481

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]		35.00			30.00			35.00			35.00	
Grade [%]		0.00			0.00			0.00			0.00	
Crosswalk		No			No			No			No	

Volumes

Name												
Base Volume Input [veh/h]	0	399	0	0	0	0	0	265	0	0	0	226
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	399	0	0	0	0	0	265	0	0	0	226
Peak Hour Factor	1.0000	0.9670	0.9670	1.0000	1.0000	1.0000	1.0000	0.9670	1.0000	1.0000	1.0000	0.9670
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	103	0	0	0	0	0	69	0	0	0	58
Total Analysis Volume [veh/h]	0	413	0	0	0	0	0	274	0	0	0	234
Pedestrian Volume [ped/h]		0			0			0			0	

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	829		877	1080
Degree of Utilization, x	0.48		0.30	0.21

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	2.75		1.29	0.79
95th-Percentile Queue Length [ft]	68.70		32.36	19.82
Approach Delay [s/veh]	11.35	0.00	8.88	7.22
Approach LOS	B	A	A	A
Intersection Delay [s/veh]	9.57			
Intersection LOS	A			

Background Conditions

Sandalwood Travel Center

Vistro File: C:\...\AME.vistro
Report File: C:\...\AMBack.pdf

Scenario 2 Background Conditions AM Peak Hour
2/21/2021

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
4	7th St (NS) at Sandalwood Dr (EW)	All-way stop	HCM 6th Edition	NB Left	0.242	9.3	A
5	I-10 SB Ramps (NS) at Sandalwood Dr (EW)	All-way stop	HCM 6th Edition	SB Left	0.731	17.5	C
6	I-15 NB On-Ramp (NS) at Sandalwood Dr (EW)	Two-way stop	HCM 6th Edition	EB Left	0.113	11.9	B
7	Calimesa Blvd (NS) at Sandalwood Dr (EW)	Signalized	HCM 6th Edition	SB Left	0.895	27.4	C
8	I-10 NB Off-Ramp (NS) at Calimesa Blvd (EW)	All-way stop	HCM 6th Edition	NB Thru	0.884	23.1	C

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 4: 7th St (NS) at Sandalwood Dr (EW)

Control Type:	All-way stop	Delay (sec / veh):	9.3
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.242

Intersection Setup

Name											
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	0	0	0
Pocket Length [ft]	115.00	100.00	100.00	100.00	100.00	100.00	200.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00			25.00			25.00			25.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	24	64	13	3	98	5	3	0	8	8	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.00	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	112	0	0	0	0	2	6	0	175	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	137	67	14	3	102	7	9	0	183	8	0	0
Peak Hour Factor	0.8170	0.8170	0.8170	0.8170	0.8170	0.8170	0.8170	1.0000	0.8170	0.8170	0.8170	0.8170
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	42	21	4	1	31	2	3	0	56	2	0	0
Total Analysis Volume [veh/h]	168	82	17	4	125	9	11	0	224	10	0	0
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	615	672	774	592	650	605	756	594
Degree of Utilization, x	0.22	0.10	0.02	0.01	0.17	0.01	0.24	0.01

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	0.86	0.33	0.06	0.02	0.60	0.05	0.96	0.04
95th-Percentile Queue Length [ft]	21.43	8.29	1.38	0.38	15.07	1.13	23.88	1.02
Approach Delay [s/veh]	9.57			9.34		8.97		9.14
Approach LOS	A			A		A		A
Intersection Delay [s/veh]	9.30							
Intersection LOS	A							

Intersection Level Of Service Report
Intersection 5: I-10 SB Ramps (NS) at Sandalwood Dr (EW)

Control Type:	All-way stop	Delay (sec / veh):	17.5
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.731

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]		30.00			30.00			25.00			25.00	
Grade [%]		0.00			0.00			0.00			0.00	
Crosswalk		No			Yes			No			No	

Volumes

Name												
Base Volume Input [veh/h]	0	0	0	321	11	40	0	64	50	417	64	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.04	1.04	1.04	1.00	1.04	1.04	1.04	1.04	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	3	0	17	0	137	38	6	95	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	0	337	11	59	0	204	90	440	162	0
Peak Hour Factor	1.0000	1.0000	1.0000	0.8670	0.8670	0.8670	1.0000	0.8670	0.8670	0.8670	0.8670	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	0	97	3	17	0	59	26	127	47	0
Total Analysis Volume [veh/h]	0	0	0	389	13	68	0	235	104	507	187	0
Pedestrian Volume [ped/h]		0			0			0			0	

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]		607	828	824
Degree of Utilization, x		0.67	0.36	0.73

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]		5.78	1.64	7.63
95th-Percentile Queue Length [ft]		144.59	41.07	190.83
Approach Delay [s/veh]	0.00	20.80	9.74	18.99
Approach LOS	A	C	A	C
Intersection Delay [s/veh]	17.47			
Intersection LOS	C			

Intersection Level Of Service Report
Intersection 6: I-15 NB On-Ramp (NS) at Sandalwood Dr (EW)

Control Type:	Two-way stop	Delay (sec / veh):	11.9
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.113

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		25.00		25.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		No		No	

Volumes

Name						
Base Volume Input [veh/h]	0	0	16	369	486	545
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	50	90	101	9
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	67	474	606	576
Peak Hour Factor	1.0000	1.0000	0.9250	0.9250	0.9250	0.9250
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	18	128	164	156
Total Analysis Volume [veh/h]	0	0	72	512	655	623
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Stop		Free		Free	
Flared Lane						
Storage Area [veh]	0		0		0	
Two-Stage Gap Acceptance						
Number of Storage Spaces in Median	0		0		0	

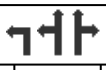
Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.11	0.00	0.01	0.01
d_M, Delay for Movement [s/veh]	0.00	0.00	11.87	0.00	0.00	0.00
Movement LOS			B	A	A	A
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.38	0.38	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.00	0.00	9.58	9.58	0.00	0.00
d_A, Approach Delay [s/veh]	0.00		1.47		0.00	
Approach LOS	A		A		A	
d_I, Intersection Delay [s/veh]	0.46					
Intersection LOS	B					

Intersection Level Of Service Report
Intersection 7: Calimesa Blvd (NS) at Sandalwood Dr (EW)

Control Type:	Signalized	Delay (sec / veh):	27.4
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.895

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	0
Pocket Length [ft]	125.00	100.00	100.00	75.00	100.00	100.00	50.00	100.00	100.00	50.00	100.00	100.00
Speed [mph]	35.00			35.00			25.00			25.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			No			Yes		

Volumes

Name												
Base Volume Input [veh/h]	189	582	276	53	96	452	170	109	98	88	388	43
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	18	14	13	0	7	12	19	70	2	5	81	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	215	619	300	55	107	482	196	183	104	97	485	45
Peak Hour Factor	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	58	168	82	15	29	131	53	50	28	26	132	12
Total Analysis Volume [veh/h]	234	673	326	60	116	524	213	199	113	105	527	49
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	80
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap	Split	Split	Split	Split	Split	Split
Signal group	5	2	0	1	6	6	0	8	0	0	4	0
Auxiliary Signal Groups						6,8						
Lead / Lag	Lead	-	-	Lead	-	-	-	-	-	-	-	-
Minimum Green [s]	7	7	0	7	7	7	0	7	0	0	7	0
Maximum Green [s]	120	120	0	120	120	120	0	120	0	0	120	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	3.0	0.0	3.0	0.0	0.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	1.0	0.0	1.0	0.0	0.0	1.0	0.0
Split [s]	19	21	0	11	13	13	0	21	0	0	27	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	3.0	0.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	7	0	0	7	7	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	10	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	2.0	0.0	2.0	0.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	2.0	0.0	2.0	0.0	0.0	2.0	0.0
Minimum Recall	No	No		No	No	No		No			No	
Maximum Recall	No	No		No	No	No		No			No	
Pedestrian Recall	No	No		No	No	No		No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	C	L	C	R
C, Cycle Length [s]	80	80	80	80	80	80	80	80	80	80	80	80
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	0.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	15	25	25	5	15	50	11	11	11	22	22	22
g / C, Green / Cycle	0.19	0.32	0.32	0.06	0.19	0.62	0.14	0.14	0.14	0.28	0.28	0.28
(v / s)_i Volume / Saturation Flow Rate	0.15	0.17	0.19	0.03	0.06	0.30	0.09	0.09	0.10	0.05	0.26	0.03
s, saturation flow rate [veh/h]	1417	3560	1589	1781	1870	1589	1781	1854	1509	1781	1870	1589
c, Capacity [veh/h]	322	1126	503	112	359	984	250	260	212	501	526	447
d1, Uniform Delay [s]	33.02	22.69	23.10	36.34	27.77	8.35	32.71	32.68	32.77	21.92	27.99	21.33
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.11	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	2.40	1.94	5.26	3.33	2.12	0.38	3.13	2.92	3.89	0.19	8.35	0.10
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.67	0.55	0.60	0.49	0.30	0.49	0.67	0.66	0.68	0.19	0.92	0.10
d, Delay for Lane Group [s/veh]	35.43	24.63	28.36	39.67	29.89	8.72	35.85	35.60	36.66	22.11	36.34	21.43
Lane Group LOS	D	C	C	D	C	A	D	D	D	C	D	C
Critical Lane Group	No	No	Yes	Yes	No	Yes	No	No	No	No	Yes	No
50th-Percentile Queue Length [veh/ln]	4.14	4.83	5.20	1.11	1.90	3.80	3.25	3.34	2.85	1.40	9.96	0.63
50th-Percentile Queue Length [ft/ln]	103.49	120.75	130.04	27.78	47.47	95.12	81.30	83.40	71.22	34.90	249.08	15.76
95th-Percentile Queue Length [veh/ln]	7.45	8.43	8.94	2.00	3.42	6.85	5.85	6.00	5.13	2.51	15.14	1.13
95th-Percentile Queue Length [ft/ln]	186.29	210.86	223.54	50.01	85.44	171.22	146.34	150.12	128.19	62.81	378.49	28.37

Movement, Approach, & Intersection Results

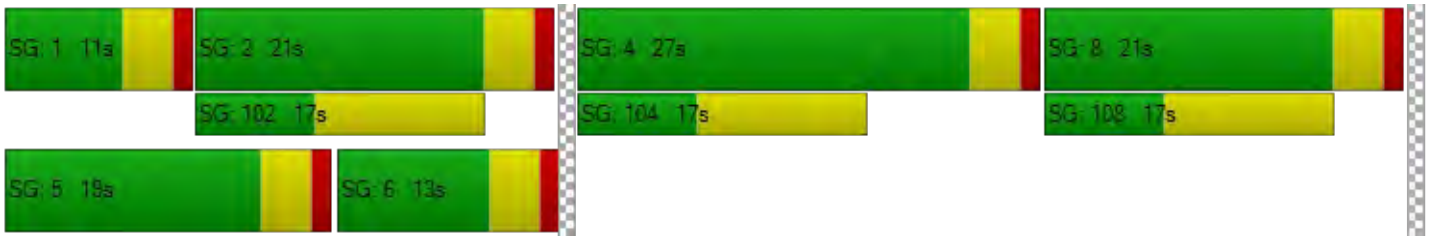
d_M, Delay for Movement [s/veh]	35.43	24.63	28.36	39.67	29.89	8.72	35.80	35.83	36.66	22.11	36.34	21.43
Movement LOS	D	C	C	D	C	A	D	D	D	C	D	C
d_A, Approach Delay [s/veh]	27.66			14.88			36.00			33.06		
Approach LOS	C			B			D			C		
d_I, Intersection Delay [s/veh]	27.38											
Intersection LOS	C											
Intersection V/C	0.895											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	0.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	29.76	29.76	0.00	29.76
l_p,int, Pedestrian LOS Score for Intersection	2.621	2.635	0.000	2.483
Crosswalk LOS	B	B	F	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	425	225	425	575
d_b, Bicycle Delay [s]	24.81	31.51	24.81	20.31
l_b,int, Bicycle LOS Score for Intersection	2.495	2.622	1.958	2.594
Bicycle LOS	B	B	A	B

Sequence

Ring 1	1	2	4	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 8: I-10 NB Off-Ramp (NS) at Calimesa Blvd (EW)

Control Type:	All-way stop	Delay (sec / veh):	23.1
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.884

Intersection Setup

Name											
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]		35.00			30.00			35.00			35.00	
Grade [%]		0.00			0.00			0.00			0.00	
Crosswalk		No			No			No			No	

Volumes

Name												
Base Volume Input [veh/h]	0	622	3	0	0	0	0	282	0	0	0	425
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.04	1.04	1.00	1.00	1.00	1.00	1.04	1.00	1.00	1.00	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	15	0	0	0	0	0	14	0	0	0	30
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	662	3	0	0	0	0	307	0	0	0	472
Peak Hour Factor	1.0000	0.8960	0.8960	1.0000	1.0000	1.0000	1.0000	0.8960	1.0000	1.0000	1.0000	0.8960
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	185	1	0	0	0	0	86	0	0	0	132
Total Analysis Volume [veh/h]	0	739	3	0	0	0	0	343	0	0	0	527
Pedestrian Volume [ped/h]		0			0			0			0	

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	753		838	1080
Degree of Utilization, x	0.88		0.37	0.44

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	16.53		1.72	2.31
95th-Percentile Queue Length [ft]	413.35		43.05	57.80
Approach Delay [s/veh]	39.34	0.00	9.77	8.92
Approach LOS	E	A	A	A
Intersection Delay [s/veh]	23.11			
Intersection LOS	C			

Sandalwood Travel Center

Vistro File: C:\...\PME.vistro
Report File: C:\...\PMBack.pdf

Scenario 2 Background Conditions PM Peak Hour
2/21/2021

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
4	7th St (NS) at Sandalwood Dr (EW)	All-way stop	HCM 6th Edition	NB Left	0.238	9.0	A
5	I-10 SB Ramps (NS) at Sandalwood Dr (EW)	All-way stop	HCM 6th Edition	SB Left	0.630	13.7	B
6	I-15 NB On-Ramp (NS) at Sandalwood Dr (EW)	Two-way stop	HCM 6th Edition	EB Left	0.058	9.5	A
7	Calimesa Blvd (NS) at Sandalwood Dr (EW)	Signalized	HCM 6th Edition	SB Left	0.409	20.5	C
8	I-10 NB Off-Ramp (NS) at Calimesa Blvd (EW)	All-way stop	HCM 6th Edition	NB Thru	0.565	10.5	B

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 4: 7th St (NS) at Sandalwood Dr (EW)

Control Type:	All-way stop	Delay (sec / veh):	9.0
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.238

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	0	0	0
Pocket Length [ft]	115.00	100.00	100.00	100.00	100.00	100.00	200.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00			25.00			25.00			25.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	6	59	11	0	81	4	2	0	7	4	1	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.00	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	148	0	0	0	0	7	4	0	98	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	154	61	11	0	84	11	6	0	105	4	1	0
Peak Hour Factor	0.8980	0.8980	0.8980	0.8980	0.8980	0.8980	0.8980	1.0000	0.8980	0.8980	0.8980	0.8980
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	43	17	3	0	23	3	2	0	29	1	0	0
Total Analysis Volume [veh/h]	171	68	12	0	94	12	7	0	117	4	1	0
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	647	711	825	675	686	609	762	618
Degree of Utilization, x	0.24	0.09	0.01	0.00	0.14	0.01	0.14	0.01

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	0.93	0.28	0.04	0.00	0.48	0.03	0.48	0.02
95th-Percentile Queue Length [ft]	23.35	7.03	1.01	0.00	12.04	0.75	11.97	0.61
Approach Delay [s/veh]	9.39			8.79		8.21		8.87
Approach LOS	A			A		A		A
Intersection Delay [s/veh]	8.95							
Intersection LOS	A							

Intersection Level Of Service Report
Intersection 5: I-10 SB Ramps (NS) at Sandalwood Dr (EW)

Control Type:	All-way stop	Delay (sec / veh):	13.7
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.630

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			25.00			25.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	No			Yes			No			No		

Volumes

Name												
Base Volume Input [veh/h]	0	0	0	258	6	22	0	64	35	361	57	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.04	1.04	1.04	1.00	1.04	1.04	1.04	1.04	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	10	0	56	0	73	25	5	92	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	0	278	6	79	0	140	61	380	151	0
Peak Hour Factor	1.0000	1.0000	1.0000	0.9510	0.9510	0.9510	1.0000	0.9510	0.9510	0.9510	0.9510	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	0	73	2	21	0	37	16	100	40	0
Total Analysis Volume [veh/h]	0	0	0	292	6	83	0	147	64	400	159	0
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]		651	843	843
Degree of Utilization, x		0.56	0.24	0.63

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]		3.69	0.94	4.96
95th-Percentile Queue Length [ft]		92.18	23.41	123.94
Approach Delay [s/veh]	0.00	15.44	8.60	14.48
Approach LOS	A	C	A	B
Intersection Delay [s/veh]	13.72			
Intersection LOS	B			

Intersection Level Of Service Report
Intersection 6: I-15 NB On-Ramp (NS) at Sandalwood Dr (EW)

Control Type:	Two-way stop	Delay (sec / veh):	9.5
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.058

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		25.00		25.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		No		No	

Volumes

Name						
Base Volume Input [veh/h]	0	0	15	296	432	211
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	33	50	97	6
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	49	358	546	225
Peak Hour Factor	1.0000	1.0000	0.9530	0.9530	0.9530	0.9530
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	13	94	143	59
Total Analysis Volume [veh/h]	0	0	51	376	573	236
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Stop		Free		Free	
Flared Lane						
Storage Area [veh]	0		0		0	
Two-Stage Gap Acceptance						
Number of Storage Spaces in Median	0		0		0	

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.06	0.00	0.01	0.00
d_M, Delay for Movement [s/veh]	0.00	0.00	9.53	0.00	0.00	0.00
Movement LOS			A	A	A	A
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.18	0.18	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.00	0.00	4.62	4.62	0.00	0.00
d_A, Approach Delay [s/veh]	0.00		1.15		0.00	
Approach LOS	A		A		A	
d_I, Intersection Delay [s/veh]	0.40					
Intersection LOS	A					

Intersection Level Of Service Report
Intersection 7: Calimesa Blvd (NS) at Sandalwood Dr (EW)

Control Type:	Signalized	Delay (sec / veh):	20.5
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.409

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	0
Pocket Length [ft]	125.00	100.00	100.00	75.00	100.00	100.00	50.00	100.00	100.00	50.00	100.00	100.00
Speed [mph]	35.00			35.00			25.00			25.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			No			Yes		

Volumes

Name												
Base Volume Input [veh/h]	100	350	180	32	138	354	142	86	84	44	171	22
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	45	8	16	0	12	18	13	32	5	13	40	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	149	372	203	33	156	386	161	121	92	59	218	23
Peak Hour Factor	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	39	97	53	9	41	101	42	32	24	15	57	6
Total Analysis Volume [veh/h]	155	388	212	34	163	403	168	126	96	62	227	24
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	75
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap	Split	Split	Split	Split	Split	Split
Signal group	5	2	0	1	6	6	0	8	0	0	4	0
Auxiliary Signal Groups						6,8						
Lead / Lag	Lead	-	-	Lead	-	-	-	-	-	-	-	-
Minimum Green [s]	7	7	0	7	7	7	0	7	0	0	7	0
Maximum Green [s]	120	120	0	120	120	120	0	120	0	0	120	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	3.0	0.0	3.0	0.0	0.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	1.0	0.0	1.0	0.0	0.0	1.0	0.0
Split [s]	14	21	0	12	19	19	0	21	0	0	21	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	3.0	0.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	7	0	0	7	7	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	10	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	2.0	0.0	2.0	0.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	2.0	0.0	2.0	0.0	0.0	2.0	0.0
Minimum Recall	No	No		No	No	No		No			No	
Maximum Recall	No	No		No	No	No		No			No	
Pedestrian Recall	No	No		No	No	No		No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	C	L	C	R
C, Cycle Length [s]	75	75	75	75	75	75	75	75	75	75	75	75
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	0.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	10	35	35	4	29	56	9	9	9	11	11	11
g / C, Green / Cycle	0.13	0.47	0.47	0.05	0.38	0.75	0.12	0.12	0.12	0.15	0.15	0.15
(v / s)_i Volume / Saturation Flow Rate	0.11	0.10	0.13	0.02	0.08	0.24	0.07	0.07	0.08	0.03	0.12	0.01
s, saturation flow rate [veh/h]	1417	3560	1589	1781	1870	1589	1781	1848	1486	1781	1870	1589
c, Capacity [veh/h]	251	1672	746	85	717	1188	220	229	184	260	273	232
d1, Uniform Delay [s]	33.31	11.82	12.13	34.74	15.59	3.17	31.14	31.11	31.22	28.35	31.03	27.81
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.11	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	2.25	0.31	0.90	2.89	0.70	0.16	2.52	2.35	3.26	0.44	5.51	0.18
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.59	0.22	0.27	0.39	0.22	0.32	0.59	0.58	0.61	0.23	0.80	0.10
d, Delay for Lane Group [s/veh]	35.56	12.12	13.03	37.62	16.28	3.33	33.66	33.46	34.48	28.79	36.53	28.00
Lane Group LOS	D	B	B	D	B	A	C	C	C	C	D	C
Critical Lane Group	Yes	No	No	No	No	Yes	No	No	No	No	Yes	No
50th-Percentile Queue Length [veh/ln]	2.73	1.72	2.03	0.63	1.79	1.15	2.34	2.38	2.05	0.96	4.16	0.37
50th-Percentile Queue Length [ft/ln]	68.32	42.95	50.78	15.80	44.86	28.64	58.50	59.60	51.30	23.93	104.05	9.15
95th-Percentile Queue Length [veh/ln]	4.92	3.09	3.66	1.14	3.23	2.06	4.21	4.29	3.69	1.72	7.49	0.66
95th-Percentile Queue Length [ft/ln]	122.97	77.30	91.41	28.44	80.76	51.54	105.29	107.28	92.33	43.08	187.29	16.47

Movement, Approach, & Intersection Results

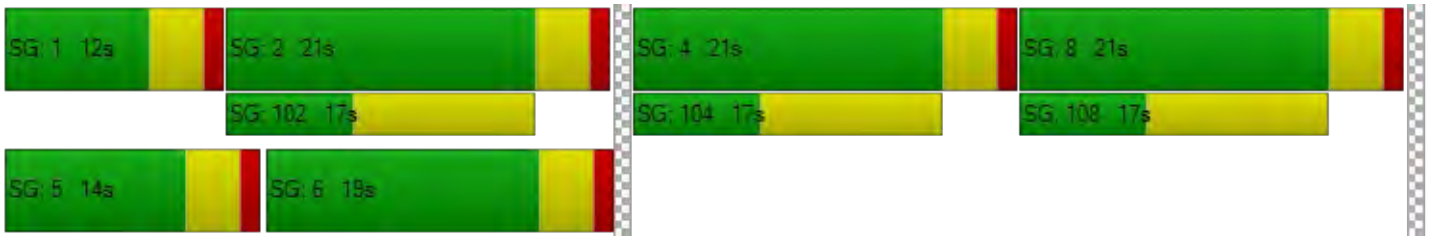
d_M, Delay for Movement [s/veh]	35.56	12.12	13.03	37.62	16.28	3.33	33.61	33.62	34.48	28.79	36.53	28.00
Movement LOS	D	B	B	D	B	A	C	C	C	C	D	C
d_A, Approach Delay [s/veh]	17.20			8.81			33.83			34.36		
Approach LOS	B			A			C			C		
d_I, Intersection Delay [s/veh]	20.52											
Intersection LOS	C											
Intersection V/C	0.409											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	0.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	27.31	27.31	0.00	27.31
l_p,int, Pedestrian LOS Score for Intersection	2.524	2.547	0.000	2.397
Crosswalk LOS	B	B	F	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	453	400	453	453
d_b, Bicycle Delay [s]	22.43	24.00	22.43	22.43
l_b,int, Bicycle LOS Score for Intersection	2.157	2.508	1.868	2.055
Bicycle LOS	B	B	A	B

Sequence

Ring 1	1	2	4	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 8: I-10 NB Off-Ramp (NS) at Calimesa Blvd (EW)

Control Type:	All-way stop	Delay (sec / veh):	10.5
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.565

Intersection Setup

Name											
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]		35.00			30.00			35.00			35.00	
Grade [%]		0.00			0.00			0.00			0.00	
Crosswalk		No			No			No			No	

Volumes

Name												
Base Volume Input [veh/h]	0	399	0	0	0	0	0	265	0	0	0	226
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.04	1.04	1.00	1.00	1.00	1.00	1.04	1.00	1.00	1.00	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	48	0	0	0	0	0	30	0	0	0	21
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	463	0	0	0	0	0	306	0	0	0	256
Peak Hour Factor	1.0000	0.9670	0.9670	1.0000	1.0000	1.0000	1.0000	0.9670	1.0000	1.0000	1.0000	0.9670
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	120	0	0	0	0	0	79	0	0	0	66
Total Analysis Volume [veh/h]	0	479	0	0	0	0	0	316	0	0	0	265
Pedestrian Volume [ped/h]		0			0			0			0	

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	819		872	1080
Degree of Utilization, x	0.57		0.35	0.24

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	3.82		1.61	0.93
95th-Percentile Queue Length [ft]	95.52		40.33	23.25
Approach Delay [s/veh]	13.07	0.00	9.36	7.37
Approach LOS	B	A	A	A
Intersection Delay [s/veh]	10.54			
Intersection LOS	B			

Background Conditions Plus Project

Sandalwood Travel Center

Vistro File: C:\...\AME.vistro

Scenario 4 Background Conditions Plus Project AM Peak Hour

Report File: C:\...\AMBackWP.pdf

2/21/2021

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	7th St (NS) at Project North Dwy (EW)	Two-way stop	HCM 6th Edition	WB Left	0.116	10.6	B
2	7th St (NS) at Project Central Dwy (EW)	Two-way stop	HCM 6th Edition	WB Left	0.050	10.9	B
3	7th St (NS) at Project South Dwy (EW)	Two-way stop	HCM 6th Edition	SB Thru	0.002	0.0	A
4	7th St (NS) at Sandalwood Dr (EW)	All-way stop	HCM 6th Edition	SB Thru	0.371	11.0	B
5	I-10 SB Ramps (NS) at Sandalwood Dr (EW)	All-way stop	HCM 6th Edition	WB Left	0.847	25.4	D
6	I-15 NB On-Ramp (NS) at Sandalwood Dr (EW)	Two-way stop	HCM 6th Edition	EB Left	0.190	13.1	B
7	Calimesa Blvd (NS) at Sandalwood Dr (EW)	Signalized	HCM 6th Edition	SB Left	0.959	28.6	C
8	I-10 NB Off-Ramp (NS) at Calimesa Blvd (EW)	All-way stop	HCM 6th Edition	NB Thru	0.937	32.0	D

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: 7th St (NS) at Project North Dwy (EW)

Control Type:	Two-way stop	Delay (sec / veh):	10.6
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.116

Intersection Setup

Name						
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00		25.00		25.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		Yes	

Volumes

Name						
Base Volume Input [veh/h]	67	0	0	106	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	6	85	9	2	85	9
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	76	85	9	112	85	9
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	19	21	2	28	21	2
Total Analysis Volume [veh/h]	76	85	9	112	85	9
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.01	0.00	0.12	0.01
d_M, Delay for Movement [s/veh]	0.00	0.00	7.55	0.00	10.59	9.54
Movement LOS	A	A	A	A	B	A
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.02	0.02	0.43	0.43
95th-Percentile Queue Length [ft/ln]	0.00	0.00	0.48	0.48	10.73	10.73
d_A, Approach Delay [s/veh]	0.00		0.56		10.49	
Approach LOS	A		A		B	
d_I, Intersection Delay [s/veh]	2.80					
Intersection LOS	B					

Intersection Level Of Service Report
Intersection 2: 7th St (NS) at Project Central Dwy (EW)

Control Type:	Two-way stop	Delay (sec / veh):	10.9
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.050

Intersection Setup

Name						
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00		25.00		25.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		Yes	

Volumes

Name						
Base Volume Input [veh/h]	67	0	0	106	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	91	0	0	87	32	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	161	0	0	197	32	0
Peak Hour Factor	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	42	0	0	52	8	0
Total Analysis Volume [veh/h]	169	0	0	207	34	0
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.00	0.00	0.05	0.00
d_M, Delay for Movement [s/veh]	0.00	0.00	7.54	0.00	10.92	9.37
Movement LOS	A	A	A	A	B	A
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.00	0.00	0.16	0.16
95th-Percentile Queue Length [ft/ln]	0.00	0.00	0.00	0.00	3.94	3.94
d_A, Approach Delay [s/veh]	0.00		0.00		10.92	
Approach LOS	A		A		B	
d_I, Intersection Delay [s/veh]	0.90					
Intersection LOS	B					

Intersection Level Of Service Report
Intersection 3: 7th St (NS) at Project South Dwy (EW)

Control Type:	Two-way stop	Delay (sec / veh):	0.0
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.002

Intersection Setup

Name						
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00		25.00		25.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		Yes	

Volumes

Name						
Base Volume Input [veh/h]	67	0	0	106	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	91	32	0	119	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	161	32	0	229	0	0
Peak Hour Factor	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	42	8	0	60	0	0
Total Analysis Volume [veh/h]	169	34	0	241	0	0
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.00	0.00	0.00	0.00
d_M, Delay for Movement [s/veh]	0.00	0.00	7.61	0.00	10.99	9.16
Movement LOS	A	A	A	A	B	A
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.00	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.00	0.00	0.00	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	0.00		0.00		10.07	
Approach LOS	A		A		B	
d_I, Intersection Delay [s/veh]	0.00					
Intersection LOS	A					

Intersection Level Of Service Report
Intersection 4: 7th St (NS) at Sandalwood Dr (EW)

Control Type:	All-way stop	Delay (sec / veh):	11.0
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.371

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	0	0	0
Pocket Length [ft]	115.00	100.00	100.00	100.00	100.00	100.00	200.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00			25.00			25.00			25.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	24	64	13	3	98	5	3	0	8	8	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.00	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	112	117	0	0	117	2	6	0	175	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	137	184	14	3	219	7	9	0	183	8	0	0
Peak Hour Factor	0.8170	0.8170	0.8170	0.8170	0.8170	0.8170	0.8170	1.0000	0.8170	0.8170	0.8170	0.8170
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	42	56	4	1	67	2	3	0	56	2	0	0
Total Analysis Volume [veh/h]	168	225	17	4	268	9	11	0	224	10	0	0
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	576	627	714	559	609	542	660	527
Degree of Utilization, x	0.24	0.29	0.02	0.01	0.37	0.02	0.28	0.02

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	0.93	1.24	0.06	0.02	1.76	0.05	1.15	0.05
95th-Percentile Queue Length [ft]	23.32	31.03	1.50	0.40	43.88	1.27	28.66	1.15
Approach Delay [s/veh]	10.74			12.06		10.21		9.92
Approach LOS	B			B		B		A
Intersection Delay [s/veh]	10.99							
Intersection LOS	B							

Intersection Level Of Service Report
Intersection 5: I-10 SB Ramps (NS) at Sandalwood Dr (EW)

Control Type:	All-way stop	Delay (sec / veh):	25.4
Analysis Method:	HCM 6th Edition	Level Of Service:	D
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.847

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]		30.00			30.00			25.00			25.00	
Grade [%]		0.00			0.00			0.00			0.00	
Crosswalk		No			Yes			No			No	

Volumes

Name												
Base Volume Input [veh/h]	0	0	0	321	11	40	0	64	50	417	64	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.04	1.04	1.04	1.00	1.04	1.04	1.04	1.04	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	3	0	55	0	216	76	6	174	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	0	337	11	97	0	283	128	440	241	0
Peak Hour Factor	1.0000	1.0000	1.0000	0.8670	0.8670	0.8670	1.0000	0.8670	0.8670	0.8670	0.8670	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	0	97	3	28	0	82	37	127	69	0
Total Analysis Volume [veh/h]	0	0	0	389	13	112	0	326	148	507	278	0
Pedestrian Volume [ped/h]		0			0			0			0	

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]		573	810	804
Degree of Utilization, x		0.78	0.51	0.85

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]		9.13	3.04	13.63
95th-Percentile Queue Length [ft]		228.18	75.99	340.80
Approach Delay [s/veh]	0.00	30.05	11.99	30.44
Approach LOS	A	D	B	D
Intersection Delay [s/veh]	25.39			
Intersection LOS	D			

Intersection Level Of Service Report
Intersection 6: I-15 NB On-Ramp (NS) at Sandalwood Dr (EW)

Control Type:	Two-way stop	Delay (sec / veh):	13.1
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.190

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		25.00		25.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		No		No	

Volumes

Name						
Base Volume Input [veh/h]	0	0	16	369	486	545
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	88	131	180	9
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	105	515	685	576
Peak Hour Factor	1.0000	1.0000	0.9250	0.9250	0.9250	0.9250
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	28	139	185	156
Total Analysis Volume [veh/h]	0	0	114	557	741	623
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane			
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			
Number of Storage Spaces in Median	0	0	0

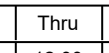
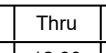
Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.19	0.01	0.01	0.01
d_M, Delay for Movement [s/veh]	0.00	0.00	13.06	0.00	0.00	0.00
Movement LOS			B	A	A	A
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.70	0.70	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.00	0.00	17.59	17.59	0.00	0.00
d_A, Approach Delay [s/veh]	0.00		2.21		0.00	
Approach LOS	A		A		A	
d_I, Intersection Delay [s/veh]	0.73					
Intersection LOS	B					

Intersection Level Of Service Report
Intersection 7: Calimesa Blvd (NS) at Sandalwood Dr (EW)

Control Type:	Signalized	Delay (sec / veh):	28.6
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.959

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	0
Pocket Length [ft]	125.00	100.00	100.00	75.00	100.00	100.00	50.00	100.00	100.00	50.00	100.00	100.00
Speed [mph]	35.00			35.00			25.00			25.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			No			Yes		

Volumes

Name												
Base Volume Input [veh/h]	189	582	276	53	96	452	170	109	98	88	388	43
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	65	14	13	0	7	23	30	91	11	5	102	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	262	619	300	55	107	493	207	204	113	97	506	45
Peak Hour Factor	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	71	168	82	15	29	134	56	55	31	26	138	12
Total Analysis Volume [veh/h]	285	673	326	60	116	536	225	222	123	105	550	49
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	80
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap	Split	Split	Split	Split	Split	Split
Signal group	5	2	0	1	6	6	0	8	0	0	4	0
Auxiliary Signal Groups						6,8						
Lead / Lag	Lead	-	-	Lead	-	-	-	-	-	-	-	-
Minimum Green [s]	7	7	0	7	7	7	0	7	0	0	7	0
Maximum Green [s]	120	120	0	120	120	120	0	120	0	0	120	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	3.0	0.0	3.0	0.0	0.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	1.0	0.0	1.0	0.0	0.0	1.0	0.0
Split [s]	21	21	0	11	11	11	0	21	0	0	27	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	3.0	0.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	7	0	0	7	7	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	10	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	2.0	0.0	2.0	0.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	2.0	0.0	2.0	0.0	0.0	2.0	0.0
Minimum Recall	No	No		No	No	No		No			No	
Maximum Recall	No	No		No	No	No		No			No	
Pedestrian Recall	No	No		No	No	No		No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	C	L	C	R
C, Cycle Length [s]	80	80	80	80	80	80	80	80	80	80	80	80
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	0.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	17	24	24	5	12	49	12	12	12	23	23	23
g / C, Green / Cycle	0.21	0.30	0.30	0.06	0.15	0.61	0.15	0.15	0.15	0.29	0.29	0.29
(v / s)_i Volume / Saturation Flow Rate	0.18	0.17	0.19	0.03	0.06	0.31	0.10	0.10	0.10	0.05	0.27	0.03
s, saturation flow rate [veh/h]	1417	3560	1589	1781	1870	1589	1781	1857	1508	1781	1870	1589
c, Capacity [veh/h]	361	1077	481	114	288	975	262	273	222	512	537	457
d1, Uniform Delay [s]	32.22	23.67	24.10	36.35	30.53	8.72	32.54	32.51	32.60	21.60	28.00	21.02
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.11	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	2.83	2.25	6.15	3.18	3.69	0.41	3.29	3.07	4.07	0.18	10.68	0.09
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.73	0.57	0.62	0.48	0.37	0.51	0.69	0.68	0.70	0.19	0.94	0.10
d, Delay for Lane Group [s/veh]	35.05	25.92	30.25	39.53	34.23	9.12	35.83	35.58	36.66	21.78	38.69	21.11
Lane Group LOS	D	C	C	D	C	A	D	D	D	C	D	C
Critical Lane Group	Yes	No	No	No	Yes	Yes	No	No	No	No	Yes	No
50th-Percentile Queue Length [veh/ln]	5.07	4.99	5.41	1.11	2.08	4.05	3.53	3.64	3.09	1.38	10.76	0.62
50th-Percentile Queue Length [ft/ln]	126.82	124.74	135.36	27.72	52.08	101.27	88.35	90.89	77.15	34.53	269.09	15.60
95th-Percentile Queue Length [veh/ln]	8.77	8.65	9.23	2.00	3.75	7.29	6.36	6.54	5.55	2.49	16.14	1.12
95th-Percentile Queue Length [ft/ln]	219.17	216.32	230.76	49.90	93.74	182.29	159.04	163.60	138.87	62.16	403.61	28.08

Movement, Approach, & Intersection Results

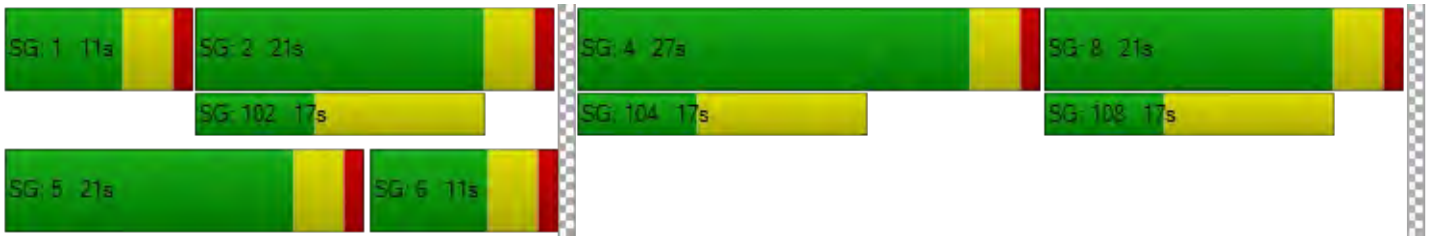
d_M, Delay for Movement [s/veh]	35.05	25.92	30.25	39.53	34.23	9.12	35.79	35.81	36.66	21.78	38.69	21.11
Movement LOS	D	C	C	D	C	A	D	D	D	C	D	C
d_A, Approach Delay [s/veh]	29.05			15.78			35.99			34.93		
Approach LOS	C			B			D			C		
d_I, Intersection Delay [s/veh]	28.64											
Intersection LOS	C											
Intersection V/C	0.959											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	0.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	29.76	29.76	0.00	29.76
l_p,int, Pedestrian LOS Score for Intersection	2.634	2.640	0.000	2.489
Crosswalk LOS	B	B	F	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	425	175	425	575
d_b, Bicycle Delay [s]	24.81	33.31	24.81	20.31
l_b,int, Bicycle LOS Score for Intersection	2.534	2.640	1.992	2.629
Bicycle LOS	B	B	A	B

Sequence

Ring 1	1	2	4	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 8: I-10 NB Off-Ramp (NS) at Calimesa Blvd (EW)

Control Type:	All-way stop	Delay (sec / veh):	32.0
Analysis Method:	HCM 6th Edition	Level Of Service:	D
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.937

Intersection Setup

Name											
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]		35.00			30.00			35.00			35.00	
Grade [%]		0.00			0.00			0.00			0.00	
Crosswalk		No			No			No			No	

Volumes

Name												
Base Volume Input [veh/h]	0	622	3	0	0	0	0	282	0	0	0	425
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.04	1.04	1.00	1.00	1.00	1.00	1.04	1.00	1.00	1.00	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	53	0	0	0	0	0	23	0	0	0	39
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	700	3	0	0	0	0	316	0	0	0	481
Peak Hour Factor	1.0000	0.8960	0.8960	1.0000	1.0000	1.0000	1.0000	0.8960	1.0000	1.0000	1.0000	0.8960
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	195	1	0	0	0	0	88	0	0	0	134
Total Analysis Volume [veh/h]	0	781	3	0	0	0	0	353	0	0	0	537
Pedestrian Volume [ped/h]		0			0			0			0	

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	750		837	1080
Degree of Utilization, x	0.94		0.38	0.45

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	22.78		1.81	2.39
95th-Percentile Queue Length [ft]	569.49		45.17	59.77
Approach Delay [s/veh]	57.59	0.00	9.90	9.01
Approach LOS	F	A	A	A
Intersection Delay [s/veh]	31.96			
Intersection LOS	D			

Sandalwood Travel Center

Vistro File: C:\...\PME.vistro

Scenario 4 Background Conditions Plus Project PM Peak Hour

Report File: C:\...\PMBackWP.pdf

2/21/2021

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	7th St (NS) at Project North Dwy (EW)	Two-way stop	HCM 6th Edition	WB Left	0.130	10.6	B
2	7th St (NS) at Project Central Dwy (EW)	Two-way stop	HCM 6th Edition	WB Left	0.039	10.8	B
3	7th St (NS) at Project South Dwy (EW)	Two-way stop	HCM 6th Edition	SB Thru	0.002	0.0	A
4	7th St (NS) at Sandalwood Dr (EW)	All-way stop	HCM 6th Edition	SB Thru	0.338	10.4	B
5	I-10 SB Ramps (NS) at Sandalwood Dr (EW)	All-way stop	HCM 6th Edition	WB Left	0.749	17.7	C
6	I-15 NB On-Ramp (NS) at Sandalwood Dr (EW)	Two-way stop	HCM 6th Edition	EB Left	0.111	10.2	B
7	Calimesa Blvd (NS) at Sandalwood Dr (EW)	Signalized	HCM 6th Edition	SB Left	0.427	21.4	C
8	I-10 NB Off-Ramp (NS) at Calimesa Blvd (EW)	All-way stop	HCM 6th Edition	NB Thru	0.616	11.3	B

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: 7th St (NS) at Project North Dwy (EW)

Control Type:	Two-way stop	Delay (sec / veh):	10.6
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.130

Intersection Setup

Name						
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00		25.00		25.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		Yes	

Volumes

Name						
Base Volume Input [veh/h]	61	0	0	85	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	4	98	11	7	97	11
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	67	98	11	95	97	11
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	17	25	3	24	24	3
Total Analysis Volume [veh/h]	67	98	11	95	97	11
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.01	0.00	0.13	0.01
d_M, Delay for Movement [s/veh]	0.00	0.00	7.57	0.00	10.58	9.62
Movement LOS	A	A	A	A	B	A
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.02	0.02	0.49	0.49
95th-Percentile Queue Length [ft/ln]	0.00	0.00	0.59	0.59	12.32	12.32
d_A, Approach Delay [s/veh]	0.00		0.79		10.48	
Approach LOS	A		A		B	
d_I, Intersection Delay [s/veh]	3.21					
Intersection LOS	B					

Intersection Level Of Service Report
Intersection 2: 7th St (NS) at Project Central Dwy (EW)

Control Type:	Two-way stop	Delay (sec / veh):	10.8
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.039

Intersection Setup

Name						
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00		25.00		25.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		Yes	

Volumes

Name						
Base Volume Input [veh/h]	61	0	0	85	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	102	0	0	104	25	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	165	0	0	192	25	0
Peak Hour Factor	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	43	0	0	51	7	0
Total Analysis Volume [veh/h]	174	0	0	202	26	0
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.00	0.00	0.04	0.00
d_M, Delay for Movement [s/veh]	0.00	0.00	7.55	0.00	10.84	9.32
Movement LOS	A	A	A	A	B	A
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.00	0.00	0.12	0.12
95th-Percentile Queue Length [ft/ln]	0.00	0.00	0.00	0.00	3.04	3.04
d_A, Approach Delay [s/veh]	0.00		0.00		10.84	
Approach LOS	A		A		B	
d_I, Intersection Delay [s/veh]	0.71					
Intersection LOS	B					

Intersection Level Of Service Report
Intersection 3: 7th St (NS) at Project South Dwy (EW)

Control Type:	Two-way stop	Delay (sec / veh):	0.0
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.002

Intersection Setup

Name						
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00		25.00		25.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		Yes	

Volumes

Name						
Base Volume Input [veh/h]	61	0	0	85	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	102	26	0	129	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	165	26	0	217	0	0
Peak Hour Factor	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	43	7	0	57	0	0
Total Analysis Volume [veh/h]	174	27	0	228	0	0
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.00	0.00	0.00	0.00
d_M, Delay for Movement [s/veh]	0.00	0.00	7.60	0.00	10.90	9.16
Movement LOS	A	A	A	A	B	A
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.00	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.00	0.00	0.00	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	0.00		0.00		10.03	
Approach LOS	A		A		B	
d_I, Intersection Delay [s/veh]	0.00					
Intersection LOS	A					

Intersection Level Of Service Report
Intersection 4: 7th St (NS) at Sandalwood Dr (EW)

Control Type:	All-way stop	Delay (sec / veh):	10.4
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.338

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	0	0	0
Pocket Length [ft]	115.00	100.00	100.00	100.00	100.00	100.00	200.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00			25.00			25.00			25.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	6	59	11	0	81	4	2	0	7	4	1	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.00	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	148	124	0	0	122	7	4	0	98	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	154	185	11	0	206	11	6	0	105	4	1	0
Peak Hour Factor	0.8980	0.8980	0.8980	0.8980	0.8980	0.8980	0.8980	1.0000	0.8980	0.8980	0.8980	0.8980
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	43	52	3	0	57	3	2	0	29	1	0	0
Total Analysis Volume [veh/h]	171	206	12	0	229	12	7	0	117	4	1	0
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	607	664	763	638	642	544	664	549
Degree of Utilization, x	0.25	0.28	0.01	0.00	0.34	0.01	0.16	0.01

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	1.01	1.15	0.04	0.00	1.52	0.03	0.56	0.03
95th-Percentile Queue Length [ft]	25.34	28.83	1.10	0.00	38.05	0.84	14.06	0.69
Approach Delay [s/veh]	10.31			11.17		9.15		9.63
Approach LOS	B			B		A		A
Intersection Delay [s/veh]	10.39							
Intersection LOS	B							

Intersection Level Of Service Report
Intersection 5: I-10 SB Ramps (NS) at Sandalwood Dr (EW)

Control Type:	All-way stop	Delay (sec / veh):	17.7
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.749

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			25.00			25.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	No			Yes			No			No		

Volumes

Name												
Base Volume Input [veh/h]	0	0	0	258	6	22	0	64	35	361	57	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.04	1.04	1.04	1.00	1.04	1.04	1.04	1.04	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	10	0	95	0	157	63	5	177	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	0	278	6	118	0	224	99	380	236	0
Peak Hour Factor	1.0000	1.0000	1.0000	0.9510	0.9510	0.9510	1.0000	0.9510	0.9510	0.9510	0.9510	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	0	73	2	31	0	59	26	100	62	0
Total Analysis Volume [veh/h]	0	0	0	292	6	124	0	236	104	400	248	0
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]		611	825	822
Degree of Utilization, x		0.66	0.39	0.75

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]		5.50	1.92	8.30
95th-Percentile Queue Length [ft]		137.59	47.91	207.52
Approach Delay [s/veh]	0.00	20.09	10.17	20.11
Approach LOS	A	C	B	C
Intersection Delay [s/veh]	17.71			
Intersection LOS	C			

Intersection Level Of Service Report
Intersection 6: I-15 NB On-Ramp (NS) at Sandalwood Dr (EW)

Control Type:	Two-way stop	Delay (sec / veh):	10.2
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.111

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		25.00		25.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		No		No	

Volumes

Name						
Base Volume Input [veh/h]	0	0	15	296	432	211
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	71	96	182	6
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	87	404	631	225
Peak Hour Factor	1.0000	1.0000	0.9530	0.9530	0.9530	0.9530
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	23	106	166	59
Total Analysis Volume [veh/h]	0	0	91	424	662	236
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Stop		Free		Free	
Flared Lane						
Storage Area [veh]	0		0		0	
Two-Stage Gap Acceptance						
Number of Storage Spaces in Median	0		0		0	

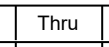
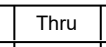
Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.11	0.00	0.01	0.00
d_M, Delay for Movement [s/veh]	0.00	0.00	10.16	0.00	0.00	0.00
Movement LOS			B	A	A	A
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.37	0.37	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.00	0.00	9.35	9.35	0.00	0.00
d_A, Approach Delay [s/veh]	0.00		1.80		0.00	
Approach LOS	A		A		A	
d_I, Intersection Delay [s/veh]	0.66					
Intersection LOS	B					

Intersection Level Of Service Report
Intersection 7: Calimesa Blvd (NS) at Sandalwood Dr (EW)

Control Type:	Signalized	Delay (sec / veh):	21.4
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.427

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	0
Pocket Length [ft]	125.00	100.00	100.00	75.00	100.00	100.00	50.00	100.00	100.00	50.00	100.00	100.00
Speed [mph]	35.00			35.00			25.00			25.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			No			Yes		

Volumes

Name												
Base Volume Input [veh/h]	100	350	180	32	138	354	142	86	84	44	171	22
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	95	8	16	0	12	30	25	55	16	13	63	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	199	372	203	33	156	398	173	144	103	59	241	23
Peak Hour Factor	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	52	97	53	9	41	104	45	38	27	15	63	6
Total Analysis Volume [veh/h]	208	388	212	34	163	415	180	150	107	62	251	24
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	75
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap	Split	Split	Split	Split	Split	Split
Signal group	5	2	0	1	6	6	0	8	0	0	4	0
Auxiliary Signal Groups						6,8						
Lead / Lag	Lead	-	-	Lead	-	-	-	-	-	-	-	-
Minimum Green [s]	7	7	0	7	7	7	0	7	0	0	7	0
Maximum Green [s]	120	120	0	120	120	120	0	120	0	0	120	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	3.0	0.0	3.0	0.0	0.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	1.0	0.0	1.0	0.0	0.0	1.0	0.0
Split [s]	16	21	0	12	17	17	0	21	0	0	21	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	3.0	0.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	7	0	0	7	7	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	10	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	2.0	0.0	2.0	0.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	2.0	0.0	2.0	0.0	0.0	2.0	0.0
Minimum Recall	No	No		No	No	No		No			No	
Maximum Recall	No	No		No	No	No		No			No	
Pedestrian Recall	No	No		No	No	No		No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	C	L	C	R
C, Cycle Length [s]	75	75	75	75	75	75	75	75	75	75	75	75
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	0.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	11	34	34	3	26	55	10	10	10	12	12	12
g / C, Green / Cycle	0.14	0.45	0.45	0.05	0.35	0.74	0.13	0.13	0.13	0.16	0.16	0.16
(v / s)_i Volume / Saturation Flow Rate	0.11	0.10	0.13	0.02	0.08	0.25	0.08	0.08	0.08	0.03	0.13	0.01
s, saturation flow rate [veh/h]	1781	3560	1589	1781	1870	1589	1781	1853	1485	1781	1870	1589
c, Capacity [veh/h]	282	1606	717	83	634	1169	237	246	197	279	293	249
d1, Uniform Delay [s]	29.92	12.62	12.96	34.74	17.86	3.51	30.71	30.68	30.78	27.60	30.63	27.07
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.11	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	3.31	0.34	0.99	3.12	0.92	0.17	2.62	2.44	3.37	0.37	6.09	0.16
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.71	0.23	0.28	0.40	0.25	0.34	0.62	0.61	0.63	0.21	0.82	0.09
d, Delay for Lane Group [s/veh]	33.23	12.96	13.95	37.86	18.79	3.68	33.33	33.12	34.16	27.97	36.72	27.23
Lane Group LOS	C	B	B	D	B	A	C	C	C	C	D	C
Critical Lane Group	Yes	No	No	No	No	Yes	No	No	No	No	Yes	No
50th-Percentile Queue Length [veh/ln]	3.66	1.81	2.14	0.63	1.93	1.31	2.62	2.68	2.28	0.94	4.62	0.36
50th-Percentile Queue Length [ft/ln]	91.57	45.13	53.39	15.87	48.24	32.87	65.41	66.88	57.06	23.48	115.53	8.98
95th-Percentile Queue Length [veh/ln]	6.59	3.25	3.84	1.14	3.47	2.37	4.71	4.82	4.11	1.69	8.15	0.65
95th-Percentile Queue Length [ft/ln]	164.83	81.23	96.10	28.57	86.83	59.17	117.73	120.39	102.71	42.26	203.67	16.16

Movement, Approach, & Intersection Results

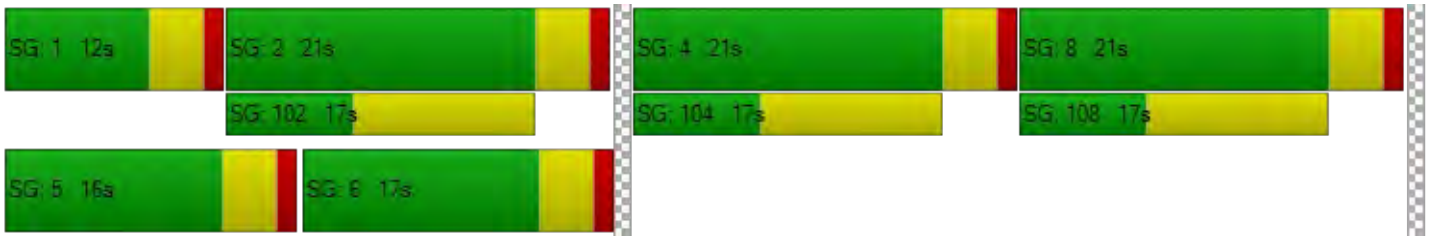
d_M, Delay for Movement [s/veh]	33.23	12.96	13.95	37.86	18.79	3.68	33.29	33.28	34.16	27.97	36.72	27.23
Movement LOS	C	B	B	D	B	A	C	C	C	C	D	C
d_A, Approach Delay [s/veh]	18.43			9.62			33.50			34.45		
Approach LOS	B			A			C			C		
d_I, Intersection Delay [s/veh]	21.44											
Intersection LOS	C											
Intersection V/C	0.427											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	0.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	27.31	27.31	0.00	27.31
l_p,int, Pedestrian LOS Score for Intersection	2.538	2.553	0.000	2.404
Crosswalk LOS	B	B	F	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	453	347	453	453
d_b, Bicycle Delay [s]	22.43	25.63	22.43	22.43
l_b,int, Bicycle LOS Score for Intersection	2.198	2.528	1.906	2.093
Bicycle LOS	B	B	A	B

Sequence

Ring 1	1	2	4	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 8: I-10 NB Off-Ramp (NS) at Calimesa Blvd (EW)

Control Type:	All-way stop	Delay (sec / veh):	11.3
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.616

Intersection Setup

Name											
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]		35.00			30.00			35.00			35.00	
Grade [%]		0.00			0.00			0.00			0.00	
Crosswalk		No			No			No			No	

Volumes

Name												
Base Volume Input [veh/h]	0	399	0	0	0	0	0	265	0	0	0	226
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.04	1.04	1.00	1.00	1.00	1.00	1.04	1.00	1.00	1.00	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	87	0	0	0	0	0	41	0	0	0	32
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	502	0	0	0	0	0	317	0	0	0	267
Peak Hour Factor	1.0000	0.9670	0.9670	1.0000	1.0000	1.0000	1.0000	0.9670	1.0000	1.0000	1.0000	0.9670
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	130	0	0	0	0	0	82	0	0	0	69
Total Analysis Volume [veh/h]	0	519	0	0	0	0	0	328	0	0	0	276
Pedestrian Volume [ped/h]		0			0			0			0	

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	815		870	1080
Degree of Utilization, x	0.62		0.36	0.25

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	4.67		1.71	0.98
95th-Percentile Queue Length [ft]	116.73		42.72	24.58
Approach Delay [s/veh]	14.42	0.00	9.50	7.43
Approach LOS	B	A	A	A
Intersection Delay [s/veh]	11.27			
Intersection LOS	B			

APPENDIX E

TRAFFIC SIGNAL WARRANT WORKSHEET

PEAK HOUR VOLUME WARRANT
(Rural Areas)

Existing AM Peak Hour

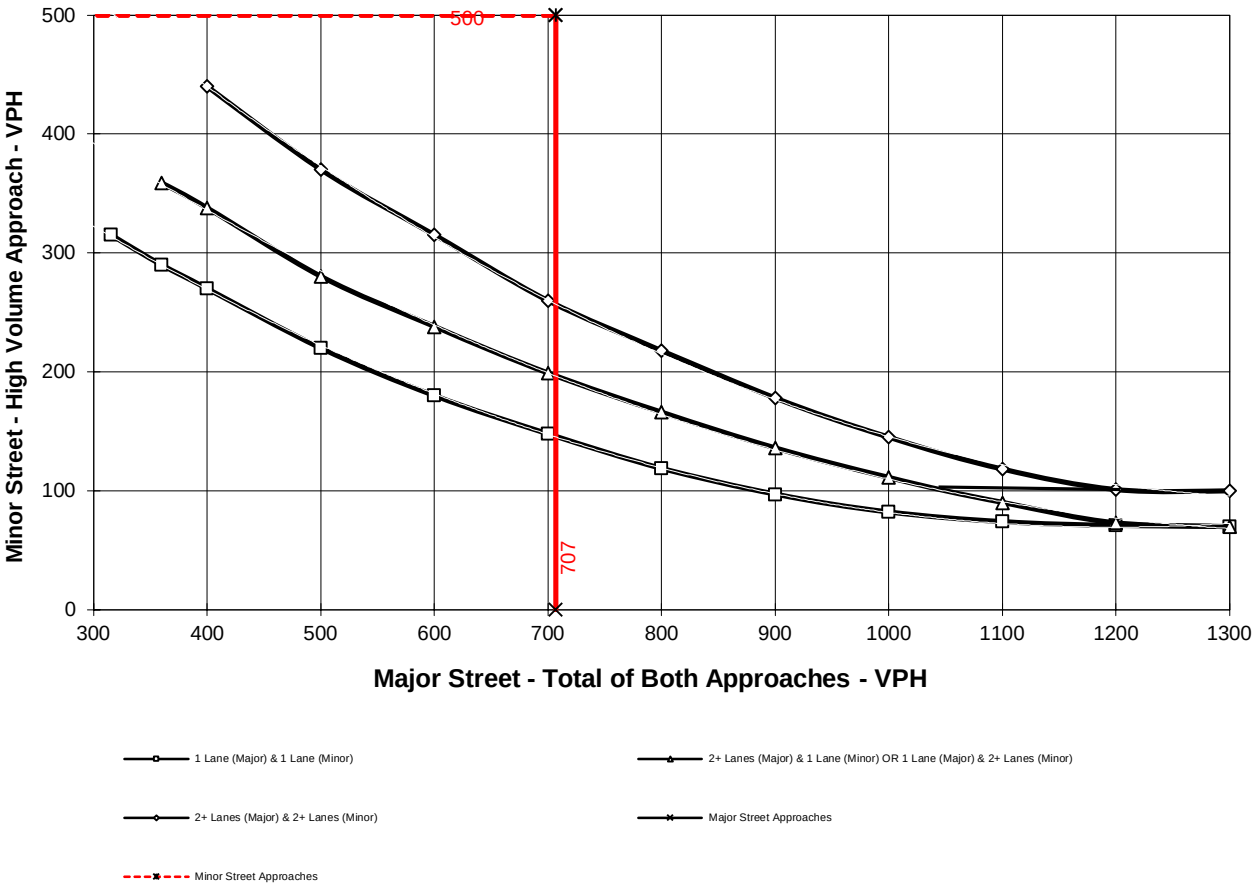
Major Street Name = **Calimesa Boulevard** Total of Both Approaches (VPH) = **707**

Number of Approach Lanes Major Street = **1**

Minor Street Name = **I-10 NB Off-Ramp** High Volume Approach (VPH) = **625**

Number of Approach Lanes Minor Street = **2**

WARRANTED FOR A SIGNAL



* NOTE:

Warrant includes adjustments to right turning movements from the minor approach consistent with CAMUTCD procedures.

** NOTE:

100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES AND 75 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACHING WITH ONE LANE.

APPENDIX F

SIGHT DISTANCE STANDARDS

CHAPTER 200 – GEOMETRIC DESIGN AND STRUCTURE STANDARDS

Topic 201 – Sight Distance

Index 201.1 – General

Sight distance is the continuous length of highway ahead, visible to the highway user. Four types of sight distance are considered herein: passing, stopping, decision, and corner. Passing sight distance is used where use of an opposing lane can provide passing opportunities (see Index 201.2). Stopping sight distance is the minimum sight distance for a given design speed to be provided on multilane highways and on 2-lane roads when passing sight distance is not economically obtainable. Stopping sight distance also is to be provided for all users, including motorists and bicyclists, at all elements of interchanges and intersections at grade, including private road connections (see Topic 504, Index 405.1, & Figure 405.7). Decision sight distance is used at major decision points (see Indexes 201.7 and 504.2). Corner sight distance is used at intersections (see Index 405.1, Figure 405.7, and Figure 504.3I).

Table 201.1 shows the minimum standards for stopping sight distance related to design speed for motorists. Stopping sight distances given in the table are suitable for Class II and Class III bikeways. The stopping sight distances are also applicable to roundabout design on the approach roadway, within the circulatory roadway, and on the exits prior to the pedestrian crossings. Also shown in Table 201.1 are the values for use in providing passing sight distance.

See Chapter 1000 for Class I bikeway sight distance guidance.

Chapter 3 of "A Policy on Geometric Design of Highways and Streets," AASHTO, contains a thorough discussion of the derivation of stopping sight distance.

201.2 Passing Sight Distance

Passing sight distance is the minimum sight distance required for the driver of one vehicle to pass another vehicle safely and comfortably. Passing must be accomplished assuming an oncoming vehicle comes into view and maintains the design speed, without reduction, after the overtaking maneuver is started.

Table 201.1

Sight Distance Standards

Design Speed[1] (mph)	Stopping[2] (ft)	Passing (ft)
10	50	---
15	100	---
20	125	800
25	150	950
30	200	1,100
35	250	1,300
40	300	1,500
45	360	1,650
50	430	1,800
55	500	1,950
60	580	2,100
65	660	2,300
70	750	2,500
75	840	2,600
80	930	2,700

Notes:

[1]See Topic 101 for selection of design speed.

[2]For sustained downgrades, refer to underlined standard in Index 201.3

The sight distance available for passing at any place is the longest distance at which a driver whose eyes are 3 ½ feet above the pavement surface can see the top of an object 4 ¼ feet high on the road. See Table 201.1 for the calculated values that are associated with various design speeds.

In general, 2-lane highways should be designed to provide for passing where possible, especially those routes with high volumes of trucks or recreational vehicles. Passing should be done on tangent horizontal alignments with constant grades or a slight sag vertical curve. Not only are drivers reluctant to pass on a long crest vertical curve, but it is impracticable to design crest vertical curves to provide for passing sight distance because of high cost where crest cuts are involved. Passing sight distance for crest vertical curves is 7 to 17 times longer than the stopping sight distance.

Ordinarily, passing sight distance is provided at locations where combinations of alignment and profile do not require the use of crest vertical curves.

Passing sight distance is considered only on 2-lane roads. At critical locations, a stretch of 3- or 4-lane passing section with stopping sight distance is sometimes more economical than two lanes with passing sight distance.

Passing on sag vertical curves can be accomplished both day and night because headlights can be seen through the entire curve.

See Part 3 of the California Manual on Uniform Traffic Control Devices (California MUTCD) for criteria relating to the placement of barrier striping for no-passing zones. Note, that the passing sight distances shown in the California MUTCD are based on traffic operational criteria. Traffic operational criteria are different from the design characteristics used to develop the values provided in Table 201.1 and Chapter 3 of AASHTO, A Policy on Geometric Design of Highways and Streets. The aforementioned table and AASHTO reference are also used to design the vertical profile and horizontal alignment of the highway. Consult the District Traffic Engineer or designee when using the California MUTCD criteria for traffic operating-control needs.

Other means for providing passing opportunities, such as climbing lanes or turnouts, are discussed in Index 204.5. Chapter 3 of AASHTO, A Policy on Geometric Design of Highways and Streets, contains a thorough discussion of the derivation of passing sight distance.

201.3 Stopping Sight Distance

The minimum stopping sight distance is the distance required by the user, traveling at a given speed, to bring the vehicle or bicycle to a stop after an object ½-foot high on the road becomes visible. Stopping sight distance for motorists is measured from the driver's eyes, which are assumed to be 3 ½ feet above the pavement surface, to an object ½-foot high on the road. See Index 1003.1(10) for Class I bikeway stopping sight distance guidance.

The stopping sight distances in Table 201.1 should be increased by 20 percent on sustained downgrades steeper than 3 percent and longer than one mile.

201.4 Stopping Sight Distance at Grade Crests

Figure 201.4 shows graphically the relationships between length of highway crest vertical curve, design speed, and algebraic difference in grades. Any one factor can be determined when the other two are known.

201.5 Stopping Sight Distance at Grade Sags

From the curves in Figure 201.5, the minimum length of vertical curve which provides headlight sight distance in grade sags for a given design speed can be obtained.

If headlight sight distance is not obtainable at grade sags, lighting may be considered. The District approval authority or Project Delivery Coordinator, depending upon the current District Design Delegation Agreement, and the District Traffic Engineer or designee shall be contacted to review proposed grade sag lighting to determine if such use is appropriate.

201.6 Stopping Sight Distance on Horizontal Curves

Where an object off the pavement such as a bridge pier, building, cut slope, or natural growth restricts sight distance, the minimum radius of curvature is determined by the stopping sight distance.

Available stopping sight distance on horizontal curves is obtained from Figure 201.6. It is assumed that the driver's eye is 3 ½ feet above the center of the inside lane (inside with respect to curve) and the object is ½-foot high. The line of sight is assumed to intercept the view obstruction at the midpoint of the sight line and 2 feet above the center of the inside lane when the road profile is flat (i.e. no vertical curve). Crest vertical curves can cause additional reductions in sight distance. The clear distance (*m*) is measured from the center of the inside lane to the obstruction.

The design objective is to determine the required clear distance from centerline of inside lane to a retaining wall, bridge pier, abutment, cut slope, or other obstruction for a given design speed. Using radius of curvature and minimum sight distance for that design speed, Figure 201.6 gives the clear distance (*m*) from centerline of inside lane to the obstruction.

See Index 1003.1(13) for bikeway stopping sight distance on horizontal curve guidance.

When the radius of curvature and the clear distance to a fixed obstruction are known, Figure 201.6 also gives the sight distance for these conditions.

See Index 101.1 for technical reductions in design speed caused by partial or momentary horizontal sight distance restrictions. See Index 203.2 for additional comments on glare screens.

Cuts may be widened where vegetation restricting horizontal sight distance is expected to grow on finished slopes. Widening is an economic trade-off that must be evaluated along with other options. See Topic 902 for sight distance requirements on landscape projects.

201.7 Decision Sight Distance

At certain locations, sight distance greater than stopping sight distance is desirable to allow drivers time for decisions without making last minute erratic maneuvers (see Chapter III of AASHTO, A Policy on Geometric Design of Highways and Streets, for a thorough discussion of the derivation of decision sight distance.)

On freeways and expressways the decision sight distance values in Table 201.7 should be used at lane drops and at off-ramp noses to interchanges, branch connections, safety roadside rest areas, vista points, and inspection stations. When determining decision sight distance on horizontal and vertical curves, Figures 201.4, 201.5, and 201.6 can be used. Figure 201.7 is an expanded version of Figure 201.4 and gives the relationship among length of crest vertical curve, design speed, and algebraic difference in grades for much longer vertical curves than Figure 201.4.

Decision sight distance is measured using the 3 ½-foot eye height and ½-foot object height. See Index 504.2 for sight distance at secondary exits on a collector-distributor road.

Table 201.7

Decision Sight Distance

Design Speed(mph)	Decision Sight Distance(ft)
30	450
35	525
40	600
45	675
50	750
55	865
60	990
65	1,050
70	1,105
75	1,180
80	1,260

Topic 202 – Superelevation

202.1 Basic Criteria

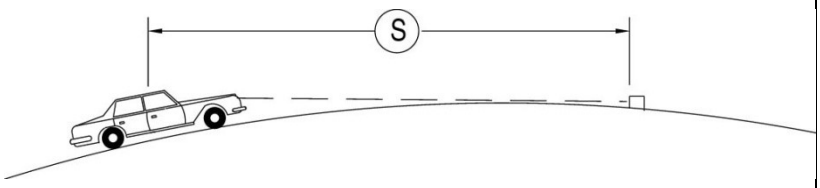
When a vehicle moves in a circular path, it undergoes a centripetal acceleration that acts toward the center of curvature. This force is countered by the perceived centrifugal force experienced by the motorist.

On a superelevated highway, this force is resisted by the vehicle weight component parallel to the superelevated surface and by the side friction developed between the tires and pavement. It is impractical to balance centrifugal force by superelevation alone, because for any given curve radius a certain superelevation rate is exactly correct for only one driving speed. At all other speeds there will be a side thrust either outward or inward, relative to the curve center, which must be offset by side friction.

If the vehicle is not skidding, these forces are in equilibrium as represented by the following simplified curve equation, which is used to design a curve for a comfortable operation at a particular speed:

Figure 201.4

Stopping Sight Distance on Crest Vertical Curves



Drivers eye height is 3 ½ feet.
Object height is ½-foot.

L = Curve Length (feet)

A = Algebraic Grade Difference (%)

S = Sight Distance (feet)

V = Design Speed for "S" in mph

K = Distance in feet required to achieve a 1% change in grade. K value as shown on graph is valid when S < L.

Notes:

- Before using this figure for intersections, branch connections and exits, see Indexes 201.7 and 405.1, and Topic 504.
- See Figure 204.4 for vertical curve formulas.
- See Index 204.4 for minimum length of vertical curve

When S > L	When S < L
L = 2S – 1329/A	$L = AS^2 /1329$

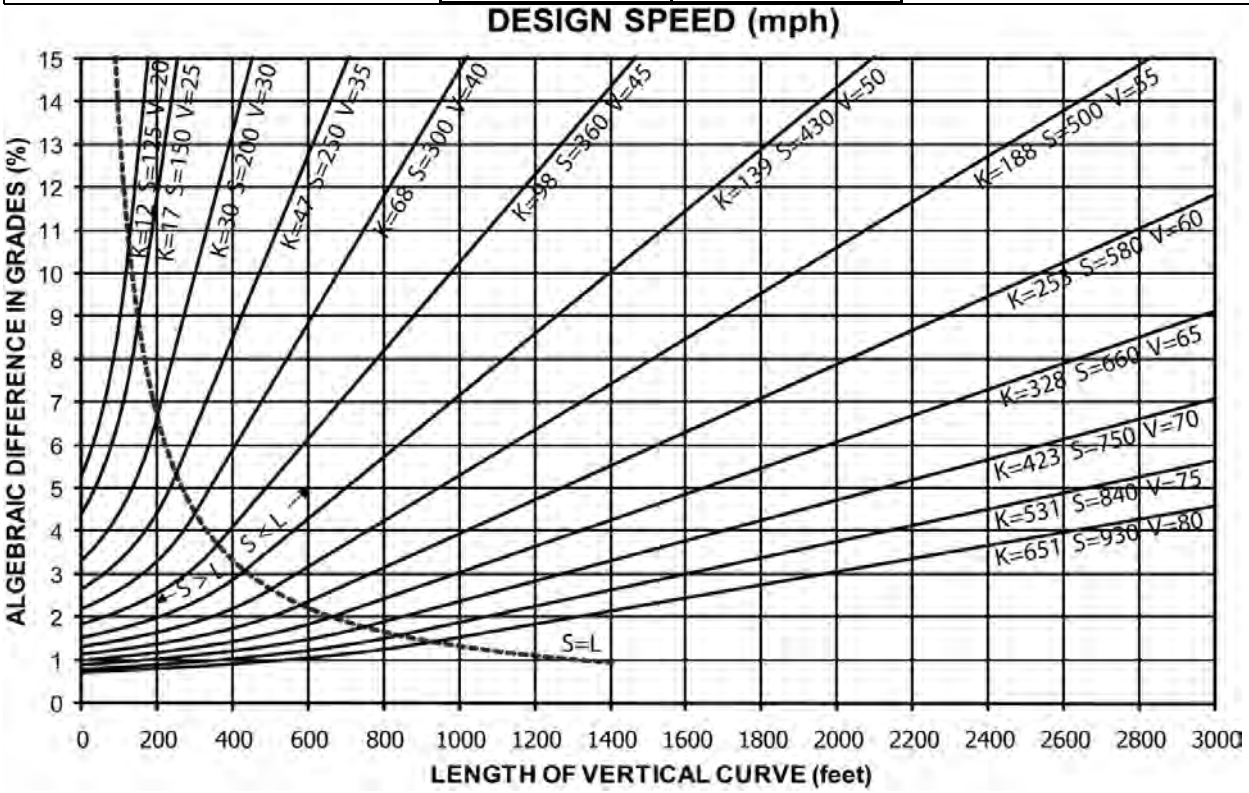
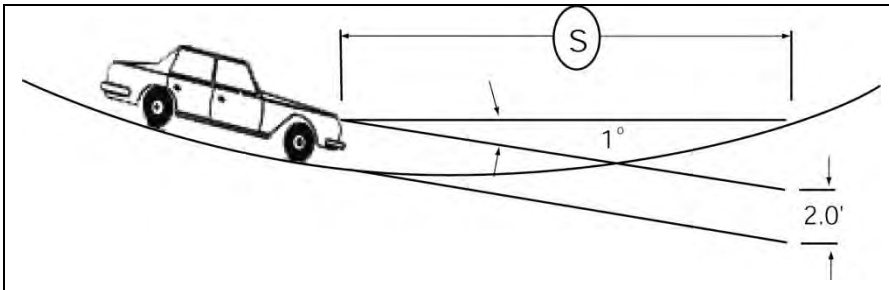


Figure 201.5

Stopping Sight Distance on Sag Vertical Curves



L = Curve Length (feet)
A = Algebraic Grade Difference (%)
S = Sight Distance (feet)
V = Design Speed for "S" in mph
K = Distance in feet required to achieve a 1% change in grade. K value as shown on graph is valid when S < L.

Notes:

- For sustained downgrades, see Index 201.3.
- Before using this figure for intersections, branch connections and exits, see Indexes 201.7 and 405.1, and Topic 504.
- See Figure 204.4 for vertical curve formulas.
- See Index 204.4 for minimum length of vertical curve.

When S > L	When S < L
$L = 2S - (400 + 3.5S)/A$	$L = AS^2/(400 + 3.5S)$

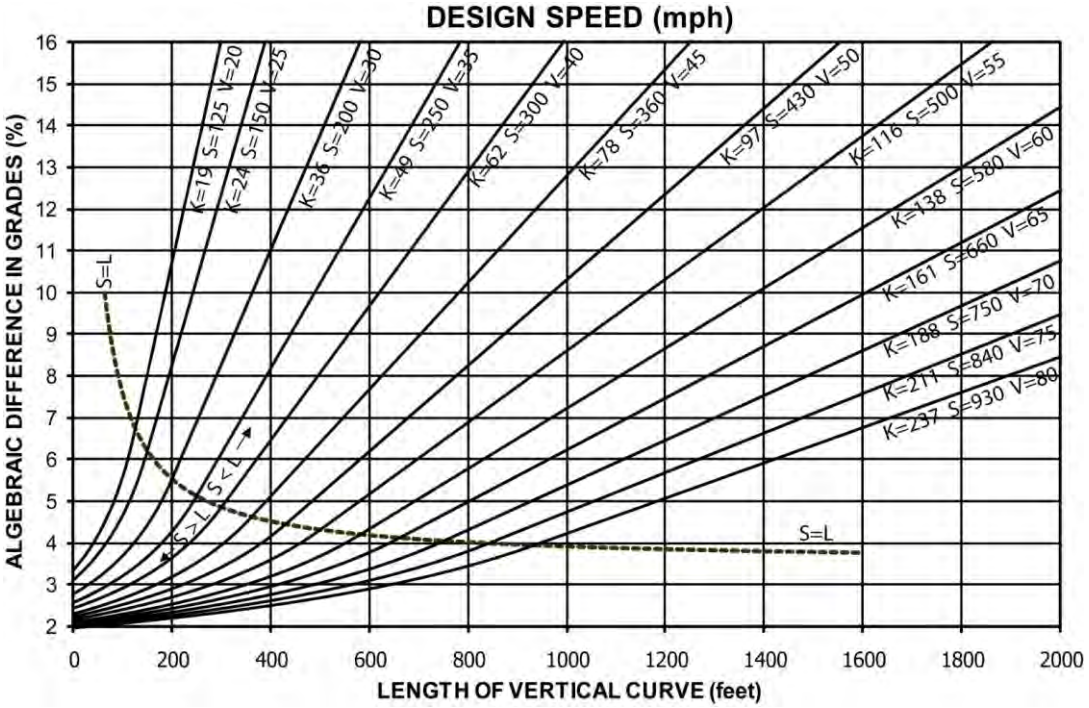
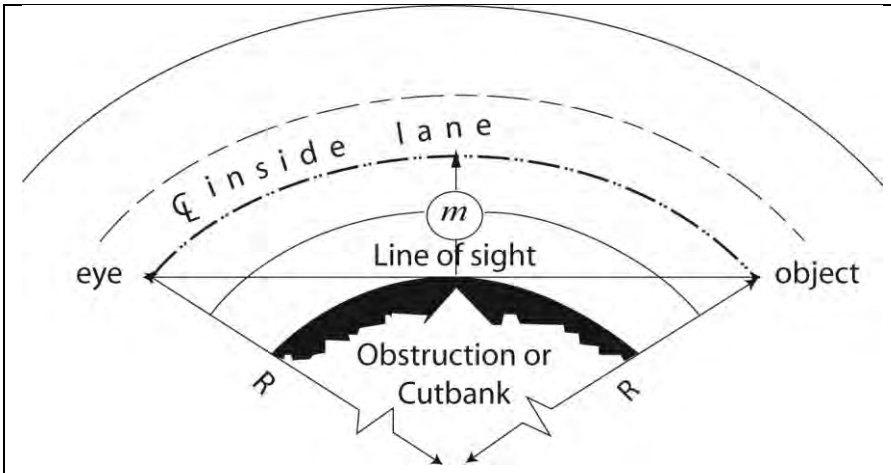


Figure 201.6

Stopping Sight Distance on Horizontal Curves



Line of sight is 2.0 feet above the centerline inside lane at point of obstruction.

R = Radius of the centerline of the lane nearest the obstruction (feet).

S = Sight Distance (feet)

V = Design Speed for "S" in mph

m = Clear distance from centerline of the lane nearest the obstruction (feet).

Notes:

- For sustained downgrades, see Index 201.3.
- Formulas apply only when "S" is equal to or less than length of curve.
- Angles in formulas are expressed in degrees.

$$m = R\left[1 - \cos\left(\frac{28.65S}{R}\right)\right]$$

$$S = \frac{R}{28.65}\left[\cos^{-1}\left(\frac{R - m}{R}\right)\right]$$

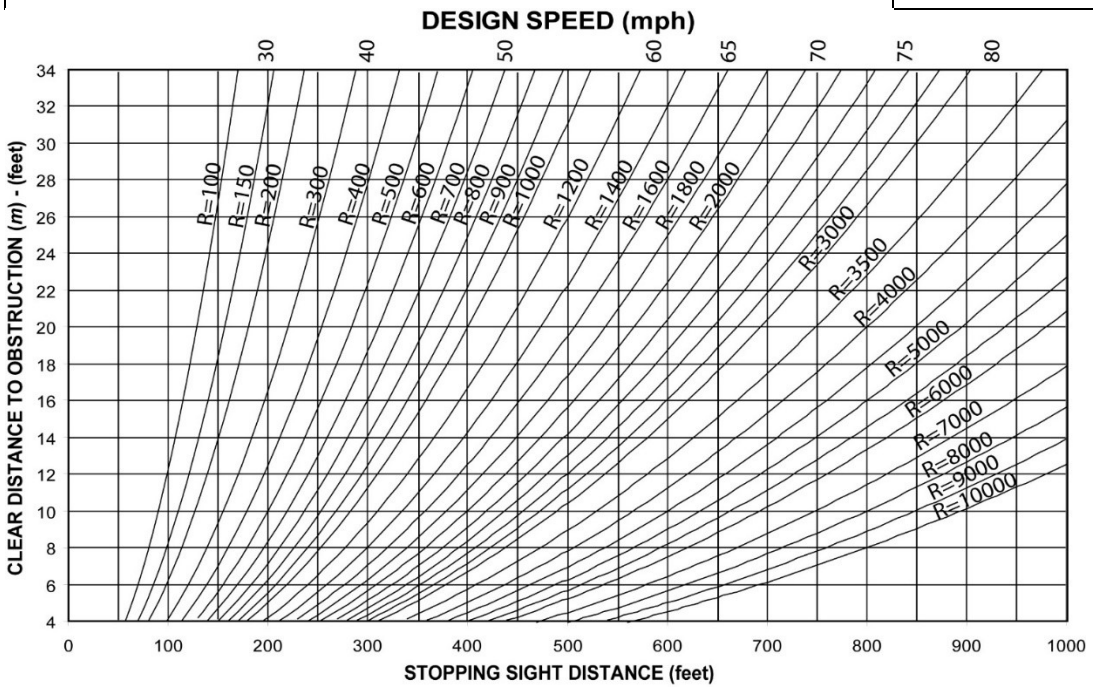
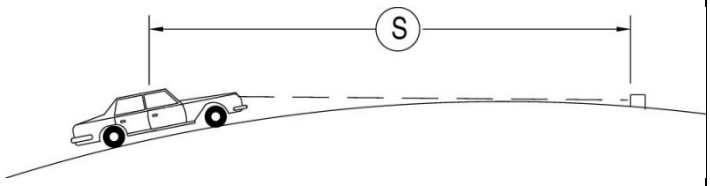


Figure 201.7

Decision Sight Distance on Crest Vertical Curves



Drivers eye height is 3½ feet.
Object height is ½-foot.

L = Curve Length (feet)

A = Algebraic Grade Difference (%)

S = Sight Distance (feet)

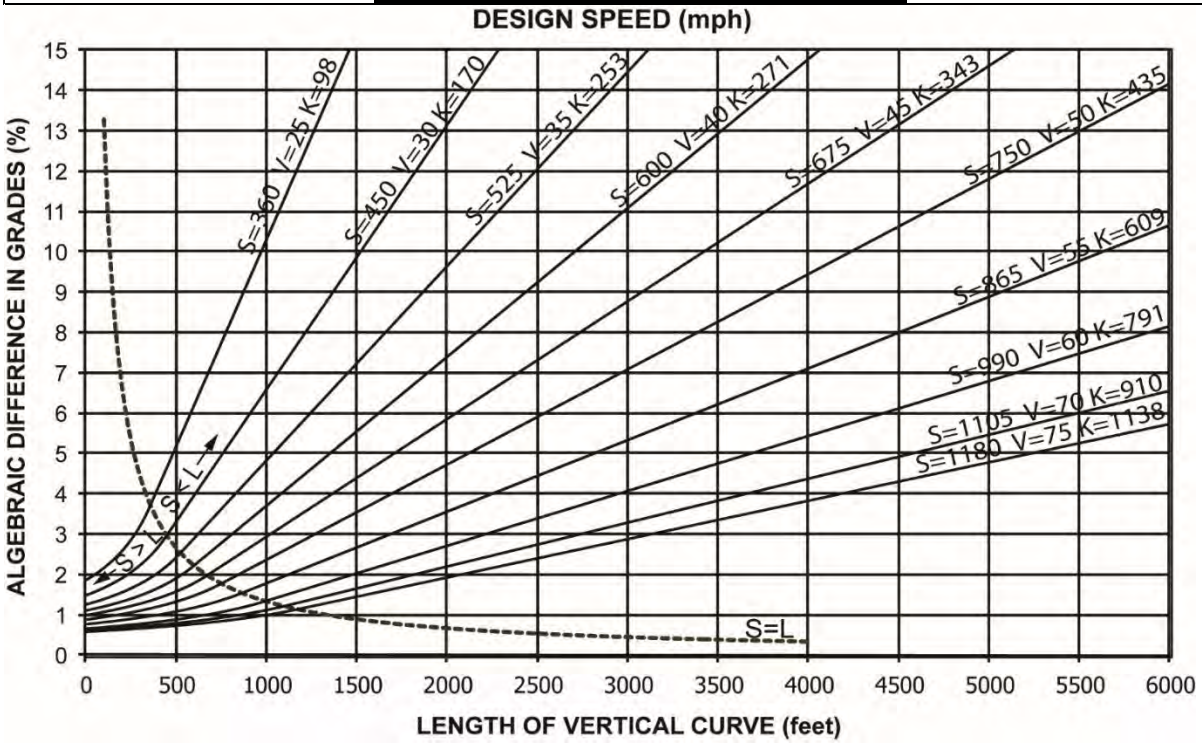
V = Design Speed for "S" in mph

K = Distance in feet required to achieve a 1% change in grade. K value as shown on graph is valid when S < L.

Notes:

- Before using this figure for intersections, branch connections and exits, see Indexes 201.7 and 405.1, and Topic 504.
- See Figure 204.4 for vertical curve formulas.
- See Index 204.4 for minimum length of vertical curve.

When S > L	When S < L
$L = 2S - 1329/A$	$L = AS^2/1329$



$$e+f = \frac{0.067V^2}{R} = \frac{V^2}{15R}$$

Where:

e = Roadway superelevation slope, feet per foot
f = Side friction factor
R = Curve radius, feet
V = Vehicle speed, miles per hour

Standard superelevation rates are designed to hold the portion of the centrifugal force that must be taken up by tire friction within allowable limits. Friction factors as related to speed are shown on Figure 202.2. The factors apply equally to flexible and rigid pavements.

202.2 Standards for Superelevation

(1) Highways. Maximum superelevation rates for various highway conditions are shown in Tables 202.2A through 202.2E. The maximum rates of superelevation (e_{max}) used on highways are controlled by four factors: climate conditions (i.e., frequency and amount of snow and ice); terrain conditions (i.e., flat, rolling, or mountainous); type of area (i.e., rural or urban); and frequency of slow-moving vehicles whose operations might be affected by high superelevation rates. Consideration of these factors jointly leads to the conclusion that no single maximum superelevation rate is universally applicable.

The highest superelevation rate for highways in common use is 10 percent, although 12 percent is used in some cases. Superelevation rates above 8 percent are only used in areas without snow and ice. Although higher superelevation rates offer an advantage to vehicles at high speeds, current practice considers that rates in excess of 12 percent are beyond practical limits. This practice recognizes the combined effects of construction processes, maintenance difficulties, and operation of vehicles at low speeds.

Where traffic congestion or the clustered land use of developing corridors (i.e., industrial, commercial, and residential) restricts top speeds, it is common practice to utilize a lower maximum rate of superelevation (typically 4 to 6 percent). Similarly, either a low maximum rate of superelevation or no superelevation is employed within intersection areas or where there is a tendency to drive slowly because of turning and crossing movements, warning devices, and signals. In these areas it is difficult to warp crossing pavements for drainage without providing negative superelevation for some turning movements. Therefore, use of Tables 202.2D and 202.2E for urban roads may not apply in these locations.

Roadways described below, (a) through (e), shall be designed with the e_{max} indicated. Design of local roads should generally use (d) and (e).

(a) Use e_{max}=12% for ramps, connectors, 2-lane conventional highways, and frontage roads. See Index 202.7 for frontage roads under other jurisdictions.

(b) Use e_{max}=10% for freeways, expressways, and multilane conventional highways.

(c) Use e_{max}=8% when snow and ice conditions prevail (usually over 3,000 feet elevation).

(d) Use e_{max}=6% for urban roads with design speeds 35 to 45 miles per hour.

(5) Lock To Lock Time - The time in seconds that an average driver would take under normal driving conditions to turn the steering wheel of a vehicle from the lock position on one side to the lock position on the other side. The default in AutoTurn software is 6 seconds.

(6) Steering Lock Angle - The maximum angle that the steering wheels can be turned. It is further defined as the average of the maximum angles made by the left and right steering wheels with the longitudinal axis of the vehicle.

(7) Articulating Angle - The maximum angle between the tractor and semitrailer.

Topic 405 – Intersection Design Standards

405.1 Sight Distance

(1) Stopping Sight Distance. See Index 201.1 for minimum stopping sight distance requirements.

(2) Corner Sight Distance.

(a) General. At unsignalized intersections a substantially clear line of sight should be maintained between the driver of a vehicle, bicyclist or pedestrian stopped on the minor road and the driver of an approaching vehicle on the major road that has no stop. Line of sight for all users should be included in right of way, in order to preserve sight lines.

See DIB 79 for 2R, 3R, certain storm damage, protective betterment, operational, and safety projects on two-lane and three-lane conventional highways.

Adequate time should be provided for the stopped vehicle on the minor road to either cross all lanes of through traffic, cross the near lanes and turn left, or turn right, without requiring through traffic to radically alter their speed. The visibility required for these maneuvers form a clear sight triangle with the corner sight distance b and the crossing distance a_1 or a_2 (see Figure 405.1 as an example of corner sight distance at a two-lane, two-way highway). Dimensions a_1 and a_2 are measured from the decision point to the center of the lane. The actual number of lanes will vary on the major and minor roads. There should be no sight obstruction within the clear sight triangle.

The methodology used for the driver on the minor road that is stopped to complete the necessary maneuver while the approaching vehicle travels at the design speed of the major road is based on gap-acceptance behavior. A 7-1/2 second criterion is applied to a passenger car (including pickup trucks) for a left turn from a stop on the minor road. However, this time gap does not account for a single-unit truck (no semitrailer), a combination truck (see Index 404.4 for truck tractor-semitrailer guidance), a right-turn from a stop, or for a crossing maneuver. See Table 405.1A for the time gap that addresses these situations for the assumed design vehicle making these maneuvers from the minor road.

In determining corner sight distance, a set back distance for the vehicle waiting on the minor road must be assumed as measured from the edge of traveled way of the major road. Set back for the driver of the vehicle on the minor road should be a minimum of 10 feet plus the shoulder width of the major road but not less than 15 feet. The location of the driver's eye for the set back is the decision point per Figure 405.1. Corner sight distance and the driver's eye set back are also illustrated in Figures 405.7 and 504.3I. Line of sight for corner sight distance for passenger cars is to be determined from a 3 and 1/2-foot height at the location of the driver of the vehicle in the center of the minor road lane to a 3 and 1/2-foot object height in the center of the approaching outside lane of the major road. This provides for reciprocal sight by both vehicles. The passenger

car driver's eye height should be applied to all minor roads. In addition, a truck driver's eye height of 7.6 feet should be applied to the minor road where applicable. Additionally, if the major road has a median barrier, a 2-foot object height should be used to determine the median barrier set back. A median that is wide enough to accommodate a stopped vehicle should also provide a clear sight triangle.

The minimum corner sight distance (feet) should be determined by the equation: $1.47V_mT_g$, where V_m is the design speed (mph) of the major road and T_g is the time gap (seconds) for the minor road vehicle to enter the major road. The values given in Table 405.1A should be used to determine T_g based on the design vehicle, the type of maneuver, and whether the stopped vehicle's rear wheels are on an upgrade exceeding 3 percent. The distance from the edge of traveled way to the rear wheels at the minor road stop location should be assumed as: 20 feet for a passenger car, 30 feet for a single-unit truck, and 72 feet for a combination truck.

(b) Public Road Intersections (Refer to Topic 205 and Index 405.7); corner sight distance applies, see Table 405.1A.

At signalized intersections the corner sight distances should also be applied whenever possible. Even though traffic flows are designed to move at separate times, unanticipated conflicts can occur due to violation of signal, right turns on red, malfunction of the signal, or use of flashing red/yellow mode.

The minimum value for corner sight distance at signalized intersections should be equal to the stopping sight distance as given in Table 201.1, measured as previously described. This includes an urban driveway that forms a leg of the signalized intersection.

(c) Private Road Intersections (Refer to Index 205.2) and Rural Driveways (Refer to Index 205.4); corner sight distance applies, see Table 405.1A. If signalized, the minimum corner sight distance should be equal to the stopping sight distance as given in Table 201.1, measured as previously described.

(d) Urban Driveways (Refer to Index 205.3); corner sight distance requirements as described above are not applied to urban driveways unless signalized. See Index 405.1(2)(b) underlined standard. If parking is allowed on the major road, parking should be prohibited on both sides of the driveway per the California MUTCD, 3B.19.

(3) Decision Sight Distance. At intersections where the State route turns or crosses another State route, the decision sight distance values given in Table 201.7 should be used. In computing and measuring decision sight distance, the 3.5-foot eye height and the 0.5-foot object height should be used, the object being located on the side of the intersection nearest the approaching driver.

The application of the various sight distance requirements for the different types of intersections is summarized in Table 405.1B

Table 405.1B

Application of Sight Distance Requirements

Intersection Types	Sight Distance		
	Stopping	Corner	Decision
Private Roads	X	X[(1)]	
Public Streets and Roads	X	X	
Signalized Intersections	X	X[(2)]	
State Route Intersections & Route Direction Changes, with or without Signals	X	X	X

NOTES:

(1) Per Index 405.1(2)(c), the minimum corner sight distance shall be equal to the stopping sight distance as given in Table 201.1. See Index 405.1(2)(a) for setback requirements.

(2) Apply corner sight distance requirements at signalized intersections whenever possible due to unanticipated violations of the signals or malfunctions of the signals. See Index 405.1(2)(b).

(4) Acceleration Lanes for Turning Moves onto State Highways. At rural intersections, with "STOP" control on the local cross road, acceleration lanes for left and right turns onto the State facility should be considered. At a minimum, the following features should be evaluated for both the major highway and the cross road:

- divided versus undivided
- number of lanes
- design speed
- gradient
- lane, shoulder and median width
- traffic volume and composition of highway users, including trucks and transit vehicles

Figure 405.1
Corner Sight Distance (b)

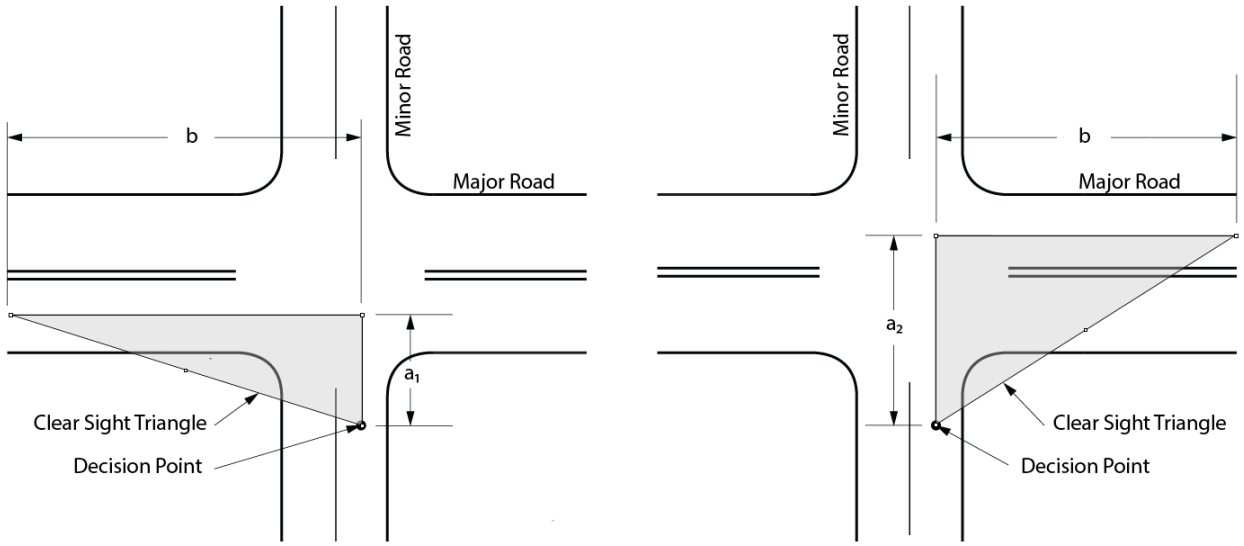


Table 405.1A
Corner Sight Distance Time Gap (T_g) for Unsignalized Intersections

Design Vehicle	Left-turn from Stop (s) (4)	Right-turn from Stop and Crossing Maneuver (s)
Passenger Car	7½	6½
Private Road Intersection		
Rural Driveway		
Single-Unit Truck	9½	8½
Public Road Intersection		
Combination Truck	11½	10½
Major and Minor Roads on Routes:		
National Network		
Terminal or Service Access		
California Legal		
KPRA Advisory		

Notes: Time gaps are for a stopped vehicle to turn left, right or cross a two-lane highway with no median and with minor road grades of 3 percent or less. The table values should be adjusted as follows:

(1)For multilane highways—When crossing or making a left-turn onto a two-way major road with more than two lanes, add 0.5 s for passenger cars or 0.7 s for trucks for each additional lane to be crossed. Median widths should be converted to an equivalent number of lanes in applying the 0.5 s and 0.7 s criteria. For example, an 18-foot wide median is equivalent to 1.5 lanes; this requires an additional 0.75 s for a passenger car to cross or an additional 1.05 s for a truck to cross.

(2)For minor road approach grades—If the minor road approach grade is an upgrade that exceeds 3 percent and the rear wheels of the design vehicle are on the grade exceeding 3 percent, add 0.2 s for each percent grade for left-turns and crossing maneuvers; or add 0.1 s for each percent grade for right-turns. For example, a passenger car is turning right from a minor road and at the stop location its rear wheels are on a 4 percent upgrade; this requires an additional 0.4 s for the right-turn.

(3)Unique situations may necessitate a different design vehicle for a particular minor road than those listed here (e.g., predominant combination trucks out of a rural driveway). Additionally, for intersections at skewed angles less than 60 degrees, a further adjustment is needed. See the AASHTO "A Policy on Geometric Design of Highways and Streets" for guidance.

(4)Time gap for vehicles approaching from the left can be the same as the right-turn from stop maneuver.

- turning volumes
- horizontal curve radii
- sight distance
- proximity of adjacent intersections
- types of adjacent intersections

For additional information and guidance, refer to AASHTO, A Policy on Geometric Design of Highways and Streets, the District Traffic Engineer or designee, the District Design Liaison, and the Project Delivery Coordinator.

405.2 Left-turn Channelization

(1) General. The purpose of a left-turn lane is to expedite the movement of through traffic by, controlling the movement of turning traffic, increasing the capacity of the intersection, and improving safety characteristics.

The District Traffic Branch normally establishes the need for left-turn lanes.

(2) Design Elements.

(a) Lane Width – **The lane width for both single and double left-turn lanes on State highways shall be 12 feet.**

For conventional State highways with posted speeds less than or equal to 40 miles per hour and AADTT (truck volume) less than 250 per lane that are in urban, city or town centers (rural main streets), the minimum lane width shall be 11 feet.

When considering lane width reductions adjacent to curbed medians, refer to Index 303.5 for guidance on effective roadway width, which may vary depending on drivers' lateral positioning and shy distance from raised curbs.

(b) Approach Taper – On conventional highways without a median, an approach taper provides space for a left-turn lane by moving traffic laterally to the right. The approach taper is unnecessary where a median is available for the full width of the left-turn lane. Length of the approach taper is given by the formula on Figures 405.2A, B and C.

Figure 405.2A shows a standard left-turn channelization design in which all widening is to the right of approaching traffic and the deceleration lane (see below) begins at the end of the approach taper. This design should be used in all situations where space is available, usually in rural and semi-rural areas or in urban areas with high traffic speeds and/or volumes.

Figures 405.2B and 405.2C show alternate designs foreshortened with the deceleration lane beginning at the 2/3 point of the approach taper so that part of the deceleration takes place in the through traffic lane. Figure 405.2C is shortened further by widening half (or other appropriate fraction) on each side. These designs may be used in urban areas where constraints exist, speeds are moderate and traffic volumes are relatively low.

APPENDIX G

VEHICLE MILES TRAVELED (VMT) ANALYSIS

VMT Screening Assessment

The project VMT impact has been assessed in accordance with guidance from the *Final City of Calimesa Transportation Impact Analysis Guidelines for Vehicle Miles Traveled and Level of Service Assessment* (May 2020) ["City of Calimesa TIA Guidelines"].

The City of Calimesa TIA Guidelines provide screening thresholds for certain types of projects that may be presumed to cause a less than significant VMT impact based on substantial evidence provided in the OPR Technical Advisory, or projects that are local serving and thus, by definition, reduce VMT by decreasing the number or distance of trips.

The City of Calimesa TIA Guidelines provide the following three screening steps: 1) Transit Priority Area (TPA) Screening; 2) Low VMT Area Screening; and 3) Project Type Screening.

Transit Priority Area (TPA) Screening

Projects located within a TPA (half mile area around an existing major transit stop or an existing stop along a high quality transit corridor) may be presumed to have a less than significant impact absent substantial evidence to the contrary. This presumption may not be appropriate if the project:

1. Has a Floor Area Ration (FAR) of less than 0.75;
2. Includes more parking for use by residents, customers, or employees of the project than required by the jurisdiction (if the jurisdiction requires the project to supply parking)
3. Is inconsistent with the applicable Sustainable Communities Strategy (as determined by the City Traffic Engineer, with input from the Metropolitan Planning Organization): or
4. Replaces affordable residential units with a smaller number of moderate or high-income residential units.

The Western Riverside Council of Governments (WRCOG) VMT Screening Tool was used to determine if the project is located within a TPA. Based on review of the WRCOG VMT Screening Tool, the proposed project is not located within a TPA; therefore, the proposed project cannot be presumed to result in a less than significant VMT impact under this screening criteria.

Low VMT Area Screening

Residential and office projects located within a low VMT generating area may be presumed to have a less than significant impact absent substantial evidence to the contrary. In addition, other employment-related and mixed-use land use projects may qualify for the use of screening if the project can reasonably be expected to generate VMT per resident, per worker, or per service population that is similar to the existing land uses in the low VMT area.

The WRCOG VMT Screening Tool was used assess low VMT area screening for the project. The WRCOG VMT Screening Tool was developed using the RIVTAM travel forecasting model to measure VMT performance for individual jurisdictions and for individual traffic analysis zones (TAZs) within the WRCOG region. TAZs are geographic polygons similar to census block groups used to represent areas of homogenous travel behavior. Total daily VMT per service population (population plus employment) was estimated for each TAZ. This presumption may not be appropriate if the project land uses would alter the existing built environment in such a way as to increase the rate or length of vehicle trips.

The City of Calimesa General Plan Buildout VMT threshold is 37.3 VMT per service population. The baseline project TAZ VMT is 35.09 VMT per service population.

Based on review of the WRCOG VMT Screening Tool, the proposed project is located within a low VMT area; therefore, the proposed project can be presumed to result in a less than significant VMT impact under this screening criteria.

PROJECT TYPE SCREENING

Some project types have been identified as having the presumption of a less than significant impact as they are local serving by nature, or they are small enough to not warrant assessment. The following uses can be presumed to have a less than significant impact absent substantial evidence to the contrary as their uses are local serving in nature:

- Local serving K-12 schools
- Local parks
- Day care centers
- Local-serving gas stations
- Local-serving banks
- Local-serving hotels (e.g. non-destination hotels)
- Student housing projects
- Local-serving medical facilities
- Local serving community colleges that are consistent with the assumptions noted in the RTP/SCS
- Projects generating less than 110 daily vehicle trips. This generally corresponds to the following "typical" development potentials:
  - 11 single family housing units
  - 16 multi-family, condominiums, or townhouse housing units
  - 10,000 square feet of office
  - 15,000 square feet of light industrial
  - 63,000 square feet of warehousing
  - 79,000 square feet of high-cube transload and short-term storage warehouse

The OPR Technical Advisory contains guidance indicating that local-serving retail, defined as less than 50,000 square feet, would typically shorten trips and reduce VMT. New retail development typically redistributes shopping trips rather than creating new trips. By adding retail opportunities into the urban fabric and thereby improving proximity, local-serving retail tends to shorten trips and reduce VMT.

Based on review of project type screening, the proposed project does meet project type screening since the project is local-serving retail and local-serving gas stations land uses; therefore, the proposed project can be presumed to result in a less than significant VMT impact under this screening criteria.

SCREENING ASSESSMENT FINDING

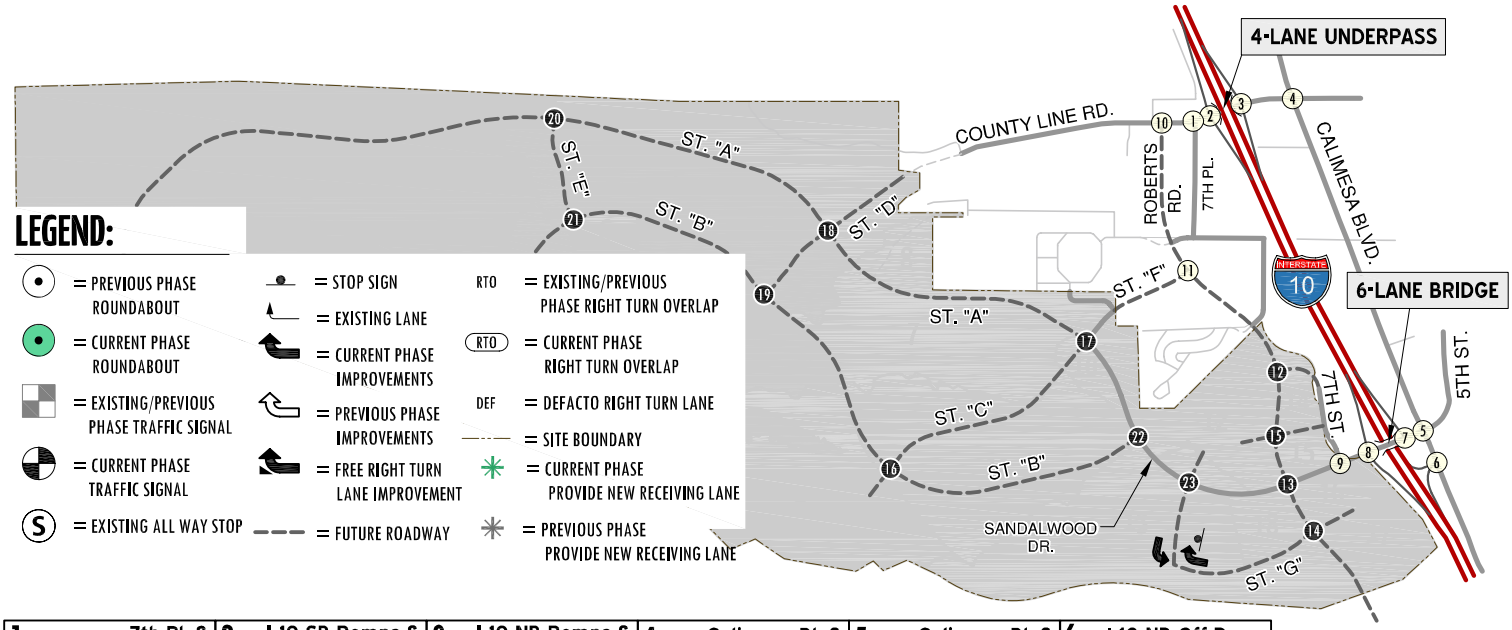
The proposed project does meet the City-established VMT screening criteria for low VMT area screening and project type screening; therefore, a detailed VMT analysis is not required for the proposed project.

APPENDIX H

BUILDOUT YEAR 2040 LEVEL OF SERVICE WORKSHEETS

EXHIBIT 11-3

PHASE 3B - BUILDOUT (2035) EXISTING PLUS AMBIENT GROWTH PLUS CUMULATIVE PLUS PROJECT RECOMMENDED IMPROVEMENTS



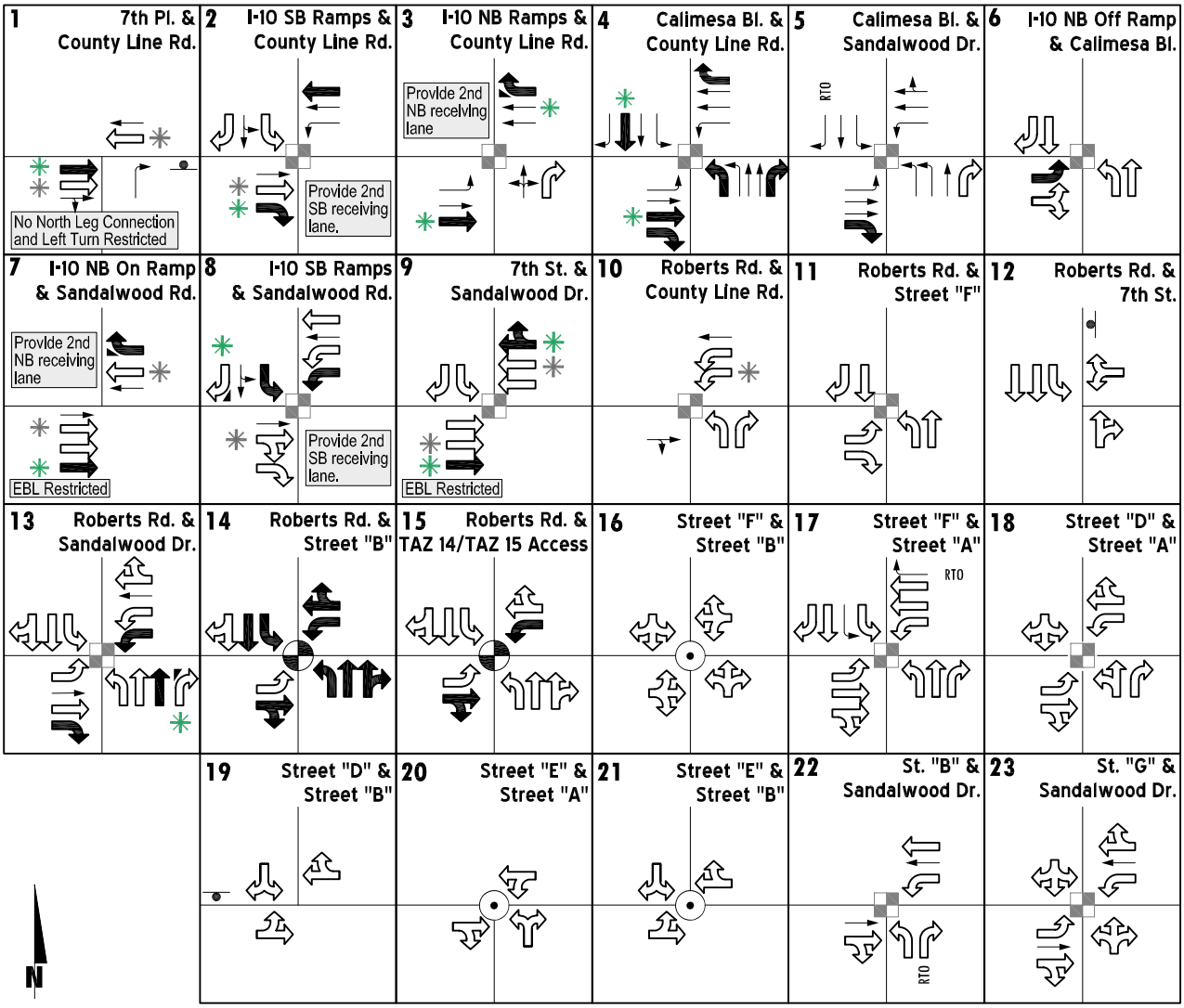
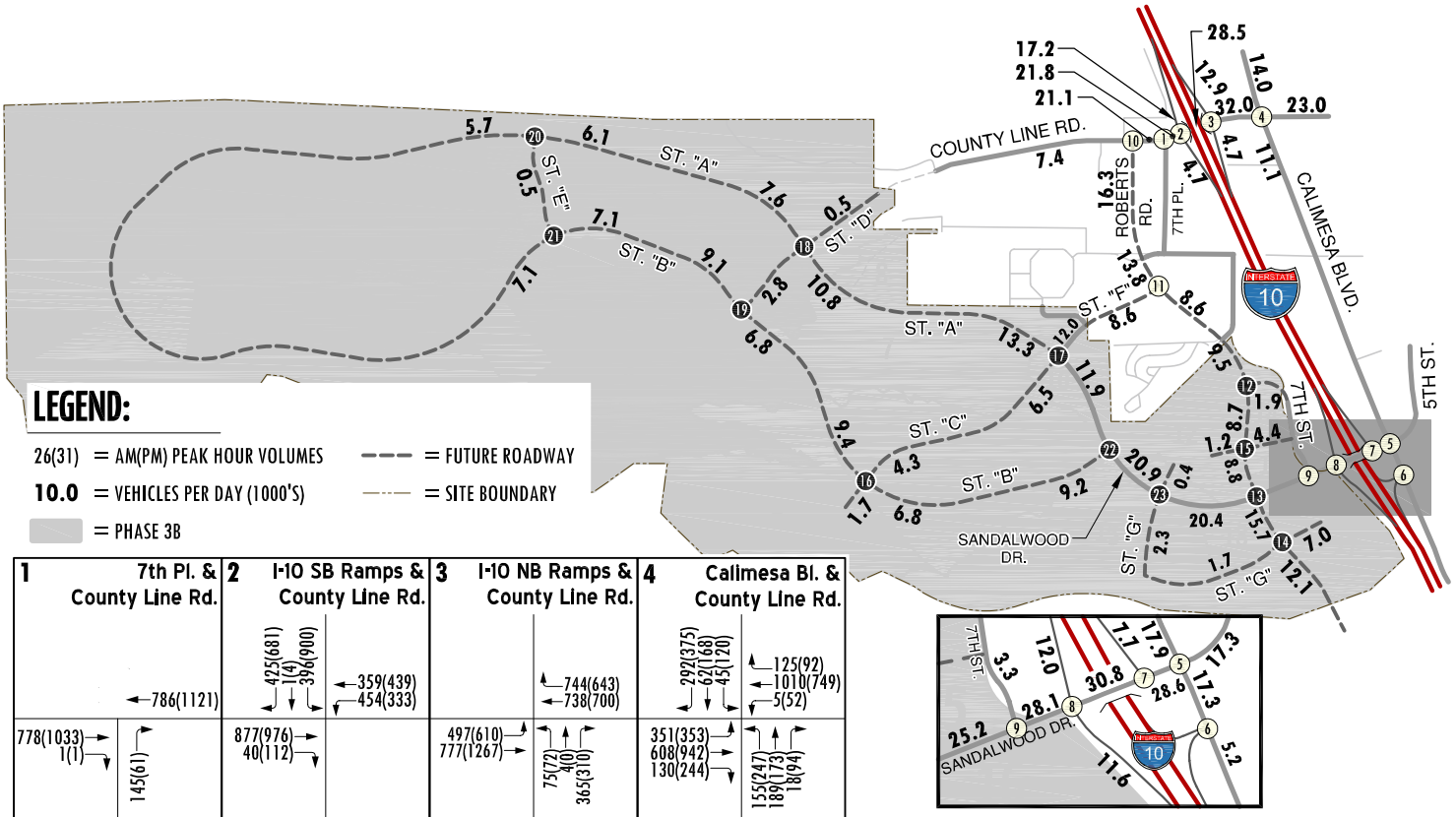
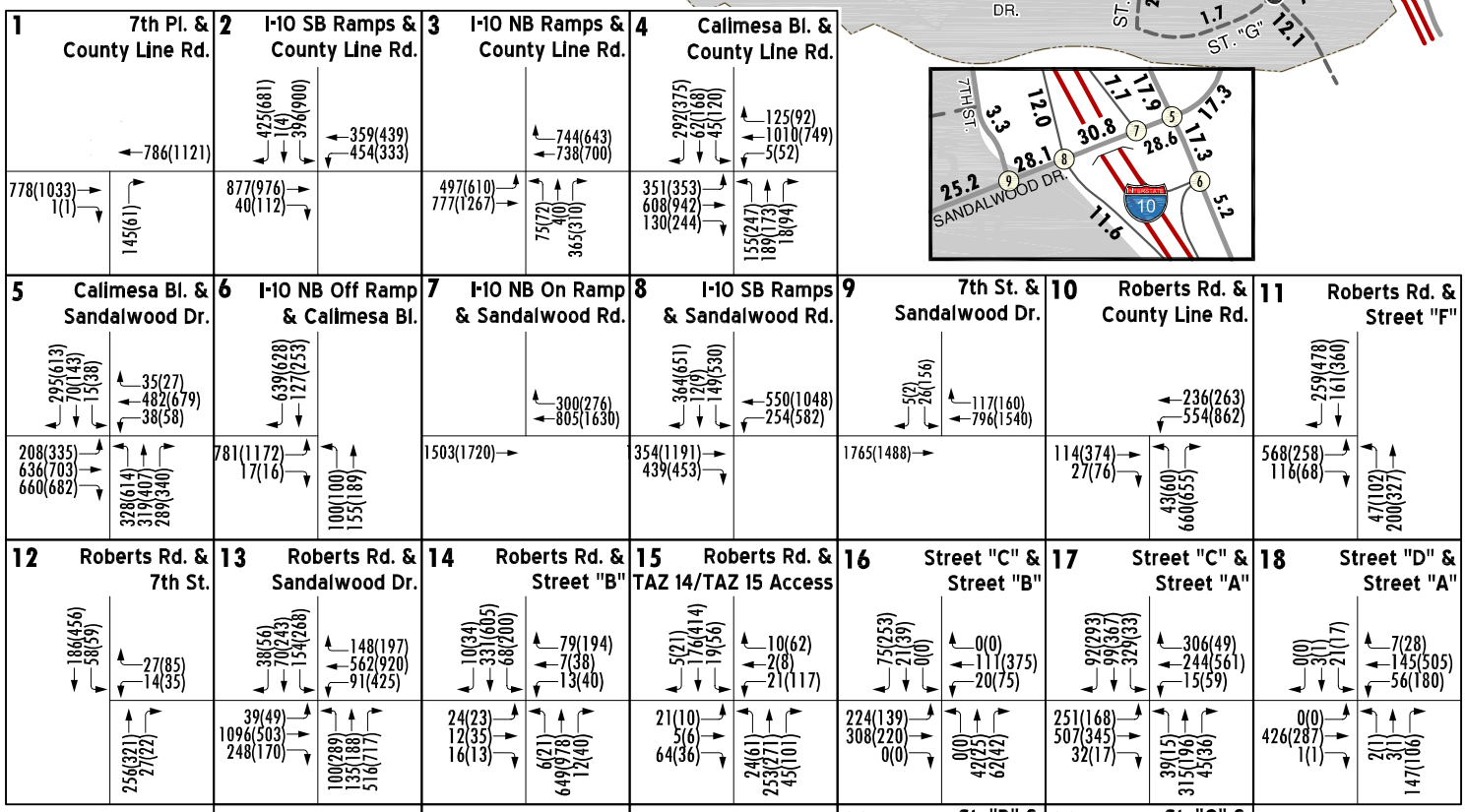


EXHIBIT 11-2

PHASE 3B - BUILDOUT (2035) EXISTING PLUS AMBIENT GROWTH PLUS CUMULATIVE PLUS PROJECT TRAFFIC VOLUMES





Cumulative No Project

Sandalwood Travel Center

Vistro File: C:\...\AM40.vistro
Report File: C:\...\AMCum.pdf

Scenario 1 Cumulative No Project AM Peak Hour
12/22/2020

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
4	7th St (NS) at Sandalwood Dr (EW)	Signalized	HCM 6th Edition	SB Left	0.407	1.9	A
5	I-10 SB Ramps (NS) at Sandalwood Dr (EW)	Signalized	HCM 6th Edition	WB Left	0.374	19.3	B
6	I-15 NB On-Ramp (NS) at Sandalwood Dr (EW)	Two-way stop	HCM 6th Edition	EB Thru	0.016	0.0	A
7	Calimesa Blvd (NS) at Sandalwood Dr (EW)	Signalized	HCM 6th Edition	SB Left	0.879	27.9	C
8	I-10 NB Off-Ramp (NS) at Calimesa Blvd (EW)	Signalized	HCM 6th Edition	NB Left	0.865	29.3	C

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 4: 7th St (NS) at Sandalwood Dr (EW)

Control Type:	Signalized	Delay (sec / veh):	1.9
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.407

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	1	0	0	0
Pocket Length [ft]	100.00	100.00	200.00	100.00	100.00	100.00
Speed [mph]	25.00		25.00		25.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	26	5	0	1765	796	117
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.05	1.05	1.00	1.05	1.05	1.05
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	27	5	0	1853	836	123
Peak Hour Factor	1.0000	1.0000	0.8170	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	7	1	0	463	209	31
Total Analysis Volume [veh/h]	27	5	0	1853	836	123
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	115
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	8.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Permissive
Signal group	1	0	0	8	4	0
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	-	-
Minimum Green [s]	7	0	0	7	7	0
Maximum Green [s]	120	0	0	120	120	0
Amber [s]	3.0	0.0	0.0	3.0	3.0	0.0
All red [s]	1.0	0.0	0.0	1.0	1.0	0.0
Split [s]	22	0	0	93	93	0
Vehicle Extension [s]	3.0	0.0	0.0	3.0	3.0	0.0
Walk [s]	7	0	0	7	7	0
Pedestrian Clearance [s]	10	0	0	10	10	0
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	0.0	0.0	2.0	2.0	0.0
Minimum Recall	No			No	No	
Maximum Recall	No			No	No	
Pedestrian Recall	No			No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	R	C	C	C
C, Cycle Length [s]	115	115	115	115	115
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	5	5	103	103	103
g / C, Green / Cycle	0.04	0.04	0.89	0.89	0.89
(v / s)_i Volume / Saturation Flow Rate	0.02	0.00	0.36	0.18	0.18
s, saturation flow rate [veh/h]	1781	1589	5094	3560	1751
c, Capacity [veh/h]	71	64	4536	3170	1559
d1, Uniform Delay [s]	53.86	53.21	1.09	0.84	0.85
k, delay calibration	0.11	0.11	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	3.30	0.52	0.27	0.14	0.30
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.38	0.08	0.41	0.20	0.21
d, Delay for Lane Group [s/veh]	57.15	53.72	1.36	0.99	1.14
Lane Group LOS	E	D	A	A	A
Critical Lane Group	Yes	No	Yes	No	No
50th-Percentile Queue Length [veh/ln]	0.83	0.15	0.92	0.39	0.45
50th-Percentile Queue Length [ft/ln]	20.85	3.75	22.98	9.65	11.32
95th-Percentile Queue Length [veh/ln]	1.50	0.27	1.65	0.69	0.82
95th-Percentile Queue Length [ft/ln]	37.54	6.74	41.37	17.37	20.38

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	57.15	53.72	0.00	1.36	1.02	1.14
Movement LOS	E	D		A	A	A
d_A, Approach Delay [s/veh]	56.62		1.36		1.04	
Approach LOS	E		A		A	
d_I, Intersection Delay [s/veh]	1.87					
Intersection LOS	A					
Intersection V/C	0.407					

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	47.03	47.03	47.03
l_p,int, Pedestrian LOS Score for Intersection	2.174	2.829	2.849
Crosswalk LOS	B	C	C
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	57.50	57.50	57.50
l_b,int, Bicycle LOS Score for Intersection	4.132	5.152	4.660
Bicycle LOS	D	F	E

Sequence

Ring 1	1	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 5: I-10 SB Ramps (NS) at Sandalwood Dr (EW)

Control Type:	Signalized	Delay (sec / veh):	19.3
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.374

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]		30.00			30.00			25.00			25.00	
Grade [%]		0.00			0.00			0.00			0.00	
Curb Present					No			No			No	
Crosswalk		No			Yes			No			No	

Volumes

Name												
Base Volume Input [veh/h]	0	0	0	149	12	364	0	354	439	254	550	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.05	1.05	1.05	1.00	1.05	1.05	1.05	1.05	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	0	156	13	382	0	372	461	267	578	0
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	0	39	3	0	0	93	115	67	145	0
Total Analysis Volume [veh/h]	0	0	0	156	13	0	0	372	461	267	578	0
Presence of On-Street Parking				No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing		0			0			0			0	
v_di, Inbound Pedestrian Volume crossing m		0			0			0			0	
v_co, Outbound Pedestrian Volume crossing		0			0			0			0	
v_ci, Inbound Pedestrian Volume crossing mi		0			0			0			0	
v_ab, Corner Pedestrian Volume [ped/h]		0			0			0			0	
Bicycle Volume [bicycles/h]		0			0			0			0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	0	0	0	0	6	0	0	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	Lead	-	-
Minimum Green [s]	0	0	0	0	7	0	0	7	0	7	7	0
Maximum Green [s]	0	0	0	0	120	0	0	120	0	120	120	0
Amber [s]	0.0	0.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	3.0	3.0	0.0
All red [s]	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	1.0	1.0	0.0
Split [s]	0	0	0	0	11	0	0	11	0	38	49	0
Vehicle Extension [s]	0.0	0.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	0	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	0	0	0	10	0	0	10	0	0	10	0
Rest In Walk					No			No			No	
I1, Start-Up Lost Time [s]	0.0	0.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	0.0	0.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall					No			No		No	No	
Maximum Recall					No			No		No	No	
Pedestrian Recall					No			No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group		L	C	R	C	C	R	L	C
C, Cycle Length [s]		60	60	60	60	60	60	60	60
L, Total Lost Time per Cycle [s]		4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]		2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]		27	27	27	14	14	14	7	25
g / C, Green / Cycle		0.45	0.45	0.45	0.23	0.23	0.23	0.12	0.42
(v / s)_i Volume / Saturation Flow Rate		0.05	0.05	0.00	0.15	0.17	0.17	0.08	0.16
s, saturation flow rate [veh/h]		1781	1794	1589	1870	1589	1589	3459	3560
c, Capacity [veh/h]		795	801	709	438	373	373	415	1498
d1, Uniform Delay [s]		9.68	9.68	0.00	20.70	21.36	21.36	25.24	12.05
k, delay calibration		0.50	0.50	0.50	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]		0.27	0.27	0.00	1.53	3.04	3.04	1.69	0.16
d3, Initial Queue Delay [s]		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity		0.11	0.11	0.00	0.63	0.75	0.75	0.64	0.39
d, Delay for Lane Group [s/veh]		9.95	9.95	0.00	22.24	24.40	24.40	26.93	12.21
Lane Group LOS		A	A	A	C	C	C	C	B
Critical Lane Group		Yes	No	No	No	Yes	No	Yes	No
50th-Percentile Queue Length [veh/ln]		0.62	0.62	0.00	3.49	3.72	3.72	1.84	2.46
50th-Percentile Queue Length [ft/ln]		15.51	15.56	0.00	87.23	93.05	93.05	45.98	61.48
95th-Percentile Queue Length [veh/ln]		1.12	1.12	0.00	6.28	6.70	6.70	3.31	4.43
95th-Percentile Queue Length [ft/ln]		27.91	28.01	0.00	157.02	167.49	167.49	82.77	110.67

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	0.00	0.00	0.00	9.95	9.95	0.00	0.00	22.24	24.40	26.93	12.21	0.00
Movement LOS				A	A	A		C	C	C	B	
d_A, Approach Delay [s/veh]	0.00			9.95			23.68			16.86		
Approach LOS	A			A			C			B		
d_I, Intersection Delay [s/veh]	19.30											
Intersection LOS	B											
Intersection V/C	0.374											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	11.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	20.01	0.00	0.00
l_p,int, Pedestrian LOS Score for Intersection	0.000	1.973	0.000	0.000
Crosswalk LOS	F	A	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	233	233	1500
d_b, Bicycle Delay [s]	30.00	23.41	23.41	1.88
l_b,int, Bicycle LOS Score for Intersection	4.132	1.838	2.247	2.257
Bicycle LOS	D	A	B	B

Sequence

Ring 1	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 6: I-15 NB On-Ramp (NS) at Sandalwood Dr (EW)

Control Type:	Two-way stop	Delay (sec / veh):	0.0
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.016

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		25.00		25.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		No		No	

Volumes

Name						
Base Volume Input [veh/h]	0	0	0	1503	805	300
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.05	1.05	1.05
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	0	1578	845	315
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
Total 15-Minute Volume [veh/h]	0	0	0	395	211	0
Total Analysis Volume [veh/h]	0	0	0	1578	845	0
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane			
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.00	0.02	0.01	0.00
d_M, Delay for Movement [s/veh]	0.00	0.00	0.00	0.00	0.00	0.00
Movement LOS				A	A	A
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.00	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.00	0.00	0.00	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	0.00		0.00		0.00	
Approach LOS	A		A		A	
d_I, Intersection Delay [s/veh]	0.00					
Intersection LOS	A					

Intersection Level Of Service Report
Intersection 7: Calimesa Blvd (NS) at Sandalwood Dr (EW)

Control Type:	Signalized	Delay (sec / veh):	27.9
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.879

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	0
Pocket Length [ft]	125.00	100.00	100.00	75.00	100.00	100.00	50.00	100.00	100.00	50.00	100.00	100.00
Speed [mph]	30.00			35.00			25.00			25.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			No			Yes		

Volumes

Name												
Base Volume Input [veh/h]	328	319	289	15	70	295	208	636	660	38	482	35
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	344	335	303	16	74	310	218	668	693	40	506	37
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	86	84	76	4	19	78	55	167	173	10	127	9
Total Analysis Volume [veh/h]	344	335	303	16	74	310	218	668	693	40	506	37
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	85
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	6	3	8	0	7	4	0
Auxiliary Signal Groups						3,6						
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	7	7	7	0	7	7	0
Maximum Green [s]	120	120	0	120	120	120	120	120	0	120	120	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	21	21	0	11	11	11	26	42	0	11	27	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	7	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	10	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No	No	No	No		No	No	
Maximum Recall	No	No		No	No	No	No	No		No	No	
Pedestrian Recall	No	No		No	No	No	No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	R	L	C	C
C, Cycle Length [s]	85	85	85	85	85	85	85	85	85	85	85	85
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	0.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	11	23	23	2	15	34	15	39	39	4	28	28
g / C, Green / Cycle	0.13	0.28	0.28	0.03	0.17	0.40	0.18	0.46	0.46	0.05	0.33	0.33
(v / s)_i Volume / Saturation Flow Rate	0.10	0.18	0.19	0.01	0.04	0.20	0.12	0.19	0.44	0.02	0.15	0.15
s, saturation flow rate [veh/h]	3459	1870	1589	1781	1870	1589	1781	3560	1589	1781	1870	1826
c, Capacity [veh/h]	441	516	439	47	327	636	317	1632	729	91	620	605
d1, Uniform Delay [s]	35.96	27.16	27.55	40.69	30.15	19.04	32.77	15.36	22.12	39.21	22.28	22.29
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.11	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	3.09	6.38	9.00	4.22	1.61	0.58	2.70	0.16	9.35	3.37	0.50	0.51
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.78	0.65	0.69	0.34	0.23	0.49	0.69	0.41	0.95	0.44	0.44	0.44
d, Delay for Lane Group [s/veh]	39.06	33.54	36.55	44.91	31.76	19.62	35.47	15.52	31.48	42.58	22.78	22.81
Lane Group LOS	D	C	D	D	C	B	D	B	C	D	C	C
Critical Lane Group	Yes	No	No	No	No	Yes	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	3.58	6.72	6.42	0.38	1.41	4.36	4.40	4.20	14.32	0.89	4.31	4.23
50th-Percentile Queue Length [ft/ln]	89.42	168.02	160.58	9.41	35.21	109.01	109.94	104.92	358.10	22.35	107.71	105.68
95th-Percentile Queue Length [veh/ln]	6.44	10.97	10.58	0.68	2.54	7.79	7.84	7.55	20.53	1.61	7.71	7.60
95th-Percentile Queue Length [ft/ln]	160.96	274.30	264.49	16.94	63.38	194.63	195.92	188.85	513.27	40.23	192.81	189.98

Movement, Approach, & Intersection Results

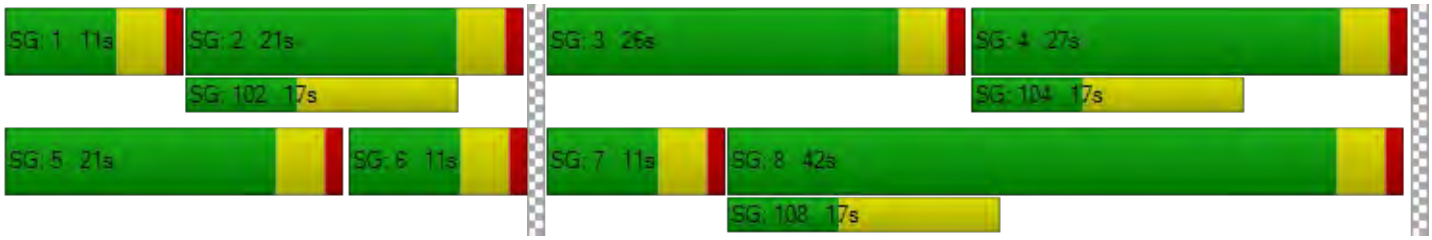
d_M, Delay for Movement [s/veh]	39.06	33.54	36.55	44.91	31.76	19.62	35.47	15.52	31.48	42.58	22.79	22.81
Movement LOS	D	C	D	D	C	B	D	B	C	D	C	C
d_A, Approach Delay [s/veh]	36.40			22.88			25.28			24.15		
Approach LOS	D			C			C			C		
d_I, Intersection Delay [s/veh]	27.90											
Intersection LOS	C											
Intersection V/C	0.879											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	0.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	32.21	32.21	0.00	32.21
l_p,int, Pedestrian LOS Score for Intersection	2.740	2.409	0.000	2.552
Crosswalk LOS	B	B	F	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	400	165	894	541
d_b, Bicycle Delay [s]	27.20	35.79	12.99	22.61
l_b,int, Bicycle LOS Score for Intersection	3.180	2.220	2.862	2.041
Bicycle LOS	C	B	C	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	



Intersection Level Of Service Report
Intersection 8: I-10 NB Off-Ramp (NS) at Calimesa Blvd (EW)

Control Type:	Signalized	Delay (sec / veh):	29.3
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.865

Intersection Setup

Name						
Approach	Northbound		Southbound		Eastbound	
Lane Configuration						
Turning Movement	Left	Thru	Thru	Right	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	35.00		35.00		35.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	No		No		No	

Volumes

Name						
Base Volume Input [veh/h]	100	155	127	639	781	17
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.05	1.05	1.05	1.05	1.05	1.05
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	105	163	133	671	820	18
Peak Hour Factor	1.0000	0.8960	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	26	45	33	168	205	5
Total Analysis Volume [veh/h]	105	182	133	671	820	18
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	70
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Protected	Permissive	Permissive	Permissive	Permissive	Permissive
Signal group	5	2	6	0	3	0
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	Lead	-
Minimum Green [s]	7	7	7	0	7	0
Maximum Green [s]	120	120	120	0	120	0
Amber [s]	3.0	3.0	3.0	0.0	3.0	0.0
All red [s]	1.0	1.0	1.0	0.0	1.0	0.0
Split [s]	37	48	11	0	22	0
Vehicle Extension [s]	3.0	3.0	3.0	0.0	3.0	0.0
Walk [s]	0	7	7	0	7	0
Pedestrian Clearance [s]	0	10	10	0	10	0
Rest In Walk		No	No		No	
I1, Start-Up Lost Time [s]	2.0	2.0	2.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	2.0	0.0	2.0	0.0
Minimum Recall	No	No	No		No	
Maximum Recall	No	No	No		No	
Pedestrian Recall	No	No	No		No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	C	R	L	C
C, Cycle Length [s]	70	70	70	70	70	70
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	6	44	34	34	18	18
g / C, Green / Cycle	0.09	0.63	0.48	0.48	0.26	0.26
(v / s)_i Volume / Saturation Flow Rate	0.06	0.09	0.07	0.42	0.24	0.24
s, saturation flow rate [veh/h]	1781	1870	1870	1589	1781	1772
c, Capacity [veh/h]	159	1176	902	767	459	456
d1, Uniform Delay [s]	30.98	5.31	10.13	16.29	25.35	25.37
k, delay calibration	0.11	0.50	0.50	0.50	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	4.72	0.25	0.34	15.36	8.63	8.92
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.66	0.14	0.15	0.87	0.91	0.92
d, Delay for Lane Group [s/veh]	35.70	5.55	10.48	31.65	33.98	34.29
Lane Group LOS	D	A	B	C	C	C
Critical Lane Group	Yes	No	No	Yes	No	Yes
50th-Percentile Queue Length [veh/ln]	1.84	0.82	1.08	11.35	7.33	7.35
50th-Percentile Queue Length [ft/ln]	46.09	20.43	27.06	283.74	183.36	183.87
95th-Percentile Queue Length [veh/ln]	3.32	1.47	1.95	16.87	11.78	11.80
95th-Percentile Queue Length [ft/ln]	82.96	36.77	48.70	421.86	294.40	295.06

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	35.70	5.55	10.48	31.65	34.13	34.29
Movement LOS	D	A	B	C	C	C
d_A, Approach Delay [s/veh]	17.36		28.15		34.14	
Approach LOS	B		C		C	
d_I, Intersection Delay [s/veh]	29.26					
Intersection LOS	C					
Intersection V/C	0.865					

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	0.00	0.00
l_p,int, Pedestrian LOS Score for Intersection	0.000	0.000	0.000
Crosswalk LOS	F	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	35.00	35.00	35.00
l_b,int, Bicycle LOS Score for Intersection	4.575	5.459	5.515
Bicycle LOS	E	F	F

Sequence

Ring 1	-	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Sandalwood Travel Center

Vistro File: C:\...\PM40.vistro
Report File: C:\...\PMCum.pdf

Scenario 1 Cumulative No Project PM Peak Hour
12/22/2020

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
4	7th St (NS) at Sandalwood Dr (EW)	Signalized	HCM 6th Edition	SB Left	0.492	4.7	A
5	I-10 SB Ramps (NS) at Sandalwood Dr (EW)	Signalized	HCM 6th Edition	SB Left	0.878	20.9	C
6	I-15 NB On-Ramp (NS) at Sandalwood Dr (EW)	Two-way stop	HCM 6th Edition	EB Thru	0.016	0.0	A
7	Calimesa Blvd (NS) at Sandalwood Dr (EW)	Signalized	HCM 6th Edition	NB Left	1.007	43.0	D
8	I-10 NB Off-Ramp (NS) at Calimesa Blvd (EW)	Signalized	HCM 6th Edition	NB Left	0.937	41.9	D

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 4: 7th St (NS) at Sandalwood Dr (EW)

Control Type:	Signalized	Delay (sec / veh):	4.7
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.492

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	1	0	0	0
Pocket Length [ft]	100.00	100.00	200.00	100.00	100.00	100.00
Speed [mph]	25.00		25.00		25.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	156	2	0	1488	1540	160
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.05	1.05	1.00	1.05	1.05	1.05
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	164	2	0	1562	1617	168
Peak Hour Factor	1.0000	1.0000	0.8170	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	41	1	0	391	404	42
Total Analysis Volume [veh/h]	164	2	0	1562	1617	168
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	8.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Permissive
Signal group	1	0	0	8	4	0
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	-	-
Minimum Green [s]	7	0	0	7	7	0
Maximum Green [s]	120	0	0	120	120	0
Amber [s]	3.0	0.0	0.0	3.0	3.0	0.0
All red [s]	1.0	0.0	0.0	1.0	1.0	0.0
Split [s]	39	0	0	21	21	0
Vehicle Extension [s]	3.0	0.0	0.0	3.0	3.0	0.0
Walk [s]	7	0	0	7	7	0
Pedestrian Clearance [s]	10	0	0	10	10	0
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	0.0	0.0	2.0	2.0	0.0
Minimum Recall	No			No	No	
Maximum Recall	No			No	No	
Pedestrian Recall	No			No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	R	C	C	C
C, Cycle Length [s]	60	60	60	60	60
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	7	7	45	45	45
g / C, Green / Cycle	0.12	0.12	0.75	0.75	0.75
(v / s)_i Volume / Saturation Flow Rate	0.09	0.00	0.31	0.33	0.33
s, saturation flow rate [veh/h]	1781	1589	5094	3560	1781
c, Capacity [veh/h]	219	196	3790	2649	1325
d1, Uniform Delay [s]	25.49	23.17	2.84	2.96	2.96
k, delay calibration	0.11	0.11	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	5.22	0.02	0.33	0.55	1.11
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.75	0.01	0.41	0.45	0.45
d, Delay for Lane Group [s/veh]	30.71	23.19	3.18	3.52	4.07
Lane Group LOS	C	C	A	A	A
Critical Lane Group	Yes	No	No	Yes	No
50th-Percentile Queue Length [veh/ln]	2.49	0.03	1.32	1.63	1.83
50th-Percentile Queue Length [ft/ln]	62.14	0.63	32.91	40.78	45.85
95th-Percentile Queue Length [veh/ln]	4.47	0.05	2.37	2.94	3.30
95th-Percentile Queue Length [ft/ln]	111.85	1.13	59.23	73.41	82.53

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	30.71	23.19	0.00	3.18	3.66	4.07
Movement LOS	C	C		A	A	A
d_A, Approach Delay [s/veh]	30.62		3.18		3.70	
Approach LOS	C		A		A	
d_I, Intersection Delay [s/veh]	4.74					
Intersection LOS	A					
Intersection V/C	0.492					

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	20.01	20.01	20.01
l_p,int, Pedestrian LOS Score for Intersection	2.176	2.861	2.906
Crosswalk LOS	B	C	C
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	30.00	30.00	30.00
l_b,int, Bicycle LOS Score for Intersection	4.132	4.992	5.114
Bicycle LOS	D	E	F

Sequence

Ring 1	1	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 5: I-10 SB Ramps (NS) at Sandalwood Dr (EW)

Control Type:	Signalized	Delay (sec / veh):	20.9
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.878

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]		30.00			30.00			25.00			25.00	
Grade [%]		0.00			0.00			0.00			0.00	
Curb Present					No			No			No	
Crosswalk		No			Yes			No			No	

Volumes

Name												
Base Volume Input [veh/h]	0	0	0	530	9	651	0	1191	453	582	1048	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.05	1.05	1.05	1.00	1.05	1.05	1.05	1.05	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	0	557	9	684	0	1251	476	611	1100	0
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	0	139	2	0	0	313	119	153	275	0
Total Analysis Volume [veh/h]	0	0	0	557	9	0	0	1251	476	611	1100	0
Presence of On-Street Parking				No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing		0			0			0			0	
v_di, Inbound Pedestrian Volume crossing m		0			0			0			0	
v_co, Outbound Pedestrian Volume crossing		0			0			0			0	
v_ci, Inbound Pedestrian Volume crossing mi		0			0			0			0	
v_ab, Corner Pedestrian Volume [ped/h]		0			0			0			0	
Bicycle Volume [bicycles/h]		0			0			0			0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	0	0	0	0	6	0	0	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	Lead	-	-
Minimum Green [s]	0	0	0	0	7	0	0	7	0	7	7	0
Maximum Green [s]	0	0	0	0	120	0	0	120	0	120	120	0
Amber [s]	0.0	0.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	3.0	3.0	0.0
All red [s]	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	1.0	1.0	0.0
Split [s]	0	0	0	0	17	0	0	27	0	16	43	0
Vehicle Extension [s]	0.0	0.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	0	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	0	0	0	10	0	0	10	0	0	10	0
Rest In Walk					No			No			No	
I1, Start-Up Lost Time [s]	0.0	0.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	0.0	0.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall					No			No		No	No	
Maximum Recall					No			No		No	No	
Pedestrian Recall					No			No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group		L	C	R	C	C	R	L	C
C, Cycle Length [s]		60	60	60	60	60	60	60	60
L, Total Lost Time per Cycle [s]		4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]		2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]		13	13	13	23	23	23	12	39
g / C, Green / Cycle		0.22	0.22	0.22	0.38	0.38	0.38	0.20	0.65
(v / s)_i Volume / Saturation Flow Rate		0.16	0.16	0.00	0.33	0.37	0.30	0.18	0.31
s, saturation flow rate [veh/h]		1781	1784	1589	1870	1704	1589	3459	3560
c, Capacity [veh/h]		390	391	348	712	649	605	692	2306
d1, Uniform Delay [s]		21.76	21.76	0.00	17.29	18.18	16.42	23.33	5.39
k, delay calibration		0.50	0.50	0.50	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]		11.86	11.84	0.00	3.87	13.18	2.35	4.16	0.15
d3, Initial Queue Delay [s]		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity		0.72	0.72	0.00	0.88	0.96	0.79	0.88	0.48
d, Delay for Lane Group [s/veh]		33.62	33.60	0.00	21.15	31.36	18.77	27.48	5.55
Lane Group LOS		C	C	A	C	C	B	C	A
Critical Lane Group		Yes	No	No	No	Yes	No	Yes	No
50th-Percentile Queue Length [veh/ln]		4.70	4.70	0.00	7.95	9.93	5.59	4.36	2.59
50th-Percentile Queue Length [ft/ln]		117.47	117.59	0.00	198.75	248.28	139.73	109.04	64.87
95th-Percentile Queue Length [veh/ln]		8.25	8.26	0.00	12.57	15.10	9.47	7.79	4.67
95th-Percentile Queue Length [ft/ln]		206.34	206.51	0.00	314.35	377.49	236.66	194.67	116.77

Movement, Approach, & Intersection Results

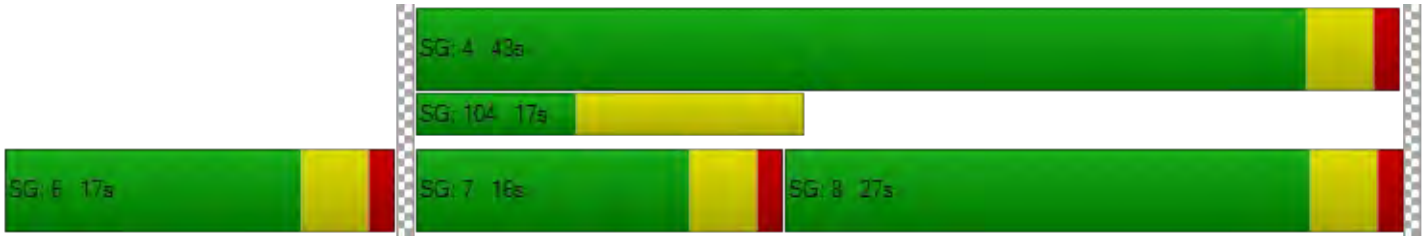
d_M, Delay for Movement [s/veh]	0.00	0.00	0.00	33.61	33.60	0.00	0.00	24.31	18.77	27.48	5.55	0.00
Movement LOS				C	C	A		C	B	C	A	
d_A, Approach Delay [s/veh]	0.00			33.61			24.19			13.38		
Approach LOS	A			C			C			B		
d_I, Intersection Delay [s/veh]	20.90											
Intersection LOS	C											
Intersection V/C	0.878											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	11.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	20.01	0.00	0.00
l_p,int, Pedestrian LOS Score for Intersection	0.000	2.102	0.000	0.000
Crosswalk LOS	F	B	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	433	767	1300
d_b, Bicycle Delay [s]	30.00	18.41	11.41	3.68
l_b,int, Bicycle LOS Score for Intersection	4.132	2.494	2.984	2.971
Bicycle LOS	D	B	C	C

Sequence

Ring 1	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 6: I-15 NB On-Ramp (NS) at Sandalwood Dr (EW)

Control Type:	Two-way stop	Delay (sec / veh):	0.0
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.016

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		25.00		25.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		No		No	

Volumes

Name						
Base Volume Input [veh/h]	0	0	0	1503	805	300
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.05	1.05	1.05
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	0	1578	845	315
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
Total 15-Minute Volume [veh/h]	0	0	0	395	211	0
Total Analysis Volume [veh/h]	0	0	0	1578	845	0
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane			
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.00	0.02	0.01	0.00
d_M, Delay for Movement [s/veh]	0.00	0.00	0.00	0.00	0.00	0.00
Movement LOS				A	A	A
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.00	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.00	0.00	0.00	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	0.00		0.00		0.00	
Approach LOS	A		A		A	
d_I, Intersection Delay [s/veh]	0.00					
Intersection LOS	A					

Intersection Level Of Service Report
Intersection 7: Calimesa Blvd (NS) at Sandalwood Dr (EW)

Control Type:	Signalized	Delay (sec / veh):	43.0
Analysis Method:	HCM 6th Edition	Level Of Service:	D
Analysis Period:	1 hour	Volume to Capacity (v/c):	1.007

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	0
Pocket Length [ft]	125.00	100.00	100.00	75.00	100.00	100.00	50.00	100.00	100.00	50.00	100.00	100.00
Speed [mph]	30.00			35.00			25.00			25.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			No			Yes		

Volumes

Name												
Base Volume Input [veh/h]	614	407	340	38	143	613	335	703	682	58	679	27
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	645	427	357	40	150	644	352	738	716	61	713	28
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	161	107	89	10	38	161	88	185	179	15	178	7
Total Analysis Volume [veh/h]	645	427	357	40	150	644	352	738	716	61	713	28
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	105
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	6	3	8	0	7	4	0
Auxiliary Signal Groups						3,6						
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	7	7	7	0	7	7	0
Maximum Green [s]	120	120	0	120	120	120	120	120	0	120	120	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	24	32	0	11	19	19	41	51	0	11	21	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	7	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	10	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No	No	No	No		No	No	
Maximum Recall	No	No		No	No	No	No	No		No	No	
Pedestrian Recall	No	No		No	No	No	No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	R	L	C	C
C, Cycle Length [s]	105	105	105	105	105	105	105	105	105	105	105	105
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	0.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	20	30	30	5	15	44	25	48	48	6	29	29
g / C, Green / Cycle	0.19	0.29	0.29	0.05	0.14	0.42	0.23	0.46	0.46	0.06	0.28	0.28
(v / s)_i Volume / Saturation Flow Rate	0.19	0.23	0.22	0.02	0.08	0.41	0.20	0.21	0.45	0.03	0.20	0.20
s, saturation flow rate [veh/h]	3459	1870	1589	1781	1870	1589	1781	3560	1589	1781	1870	1845
c, Capacity [veh/h]	659	539	458	82	269	662	418	1630	727	99	521	514
d1, Uniform Delay [s]	42.30	34.46	34.29	48.89	41.84	30.04	38.34	19.48	28.10	48.50	34.13	34.14
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.11	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	18.49	12.28	13.37	4.50	8.33	15.74	4.90	0.20	19.68	6.28	1.87	1.90
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.98	0.79	0.78	0.49	0.56	0.97	0.84	0.45	0.98	0.62	0.72	0.72
d, Delay for Lane Group [s/veh]	60.79	46.74	47.66	53.39	50.17	45.79	43.24	19.68	47.78	54.78	36.01	36.04
Lane Group LOS	E	D	D	D	D	D	D	B	D	D	D	D
Critical Lane Group	Yes	No	No	No	No	Yes	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	9.91	11.74	9.94	1.11	4.19	17.97	9.20	6.16	21.10	1.74	8.82	8.72
50th-Percentile Queue Length [ft/ln]	247.74	293.43	248.43	27.85	104.75	449.32	229.99	154.09	527.62	43.62	220.62	217.91
95th-Percentile Queue Length [veh/ln]	15.07	17.36	15.11	2.01	7.54	24.93	14.17	10.24	28.64	3.14	13.70	13.56
95th-Percentile Queue Length [ft/ln]	376.80	433.90	377.68	50.13	188.55	623.13	354.34	255.88	715.97	78.52	342.42	338.95

Movement, Approach, & Intersection Results

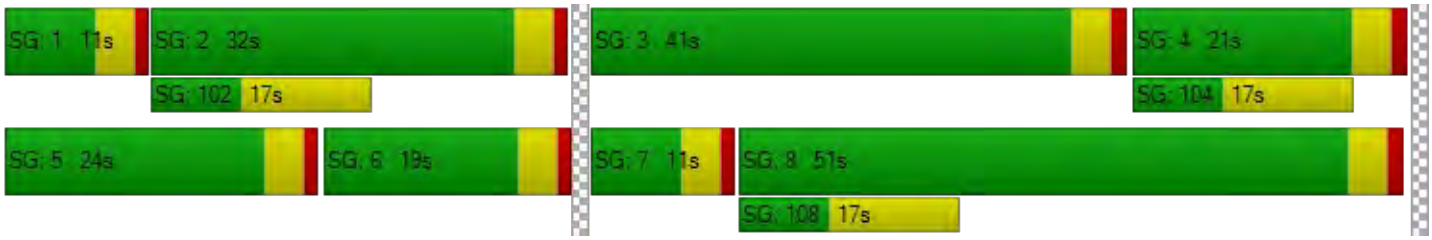
d_M, Delay for Movement [s/veh]	60.79	46.74	47.66	53.39	50.17	45.79	43.24	19.68	47.78	54.78	36.02	36.04
Movement LOS	E	D	D	D	D	D	D	B	D	D	D	D
d_A, Approach Delay [s/veh]	53.31			46.94			35.41			37.45		
Approach LOS	D			D			D			D		
d_I, Intersection Delay [s/veh]	42.97											
Intersection LOS	D											
Intersection V/C	1.007											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	0.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	42.08	42.08	0.00	42.08
l_p,int, Pedestrian LOS Score for Intersection	2.843	2.605	0.000	2.622
Crosswalk LOS	C	B	F	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	533	286	895	324
d_b, Bicycle Delay [s]	28.23	38.57	16.02	36.88
l_b,int, Bicycle LOS Score for Intersection	3.917	2.936	3.050	2.221
Bicycle LOS	D	C	C	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	



Intersection Level Of Service Report
Intersection 8: I-10 NB Off-Ramp (NS) at Calimesa Blvd (EW)

Control Type:	Signalized	Delay (sec / veh):	41.9
Analysis Method:	HCM 6th Edition	Level Of Service:	D
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.937

Intersection Setup

Name						
Approach	Northbound		Southbound		Eastbound	
Lane Configuration						
Turning Movement	Left	Thru	Thru	Right	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	35.00		35.00		35.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	No		No		No	

Volumes

Name						
Base Volume Input [veh/h]	100	189	253	628	1172	16
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.05	1.05	1.05	1.05	1.05	1.05
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	105	198	266	659	1231	17
Peak Hour Factor	1.0000	0.8960	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	26	55	67	165	308	4
Total Analysis Volume [veh/h]	105	221	266	659	1231	17
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	100
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Protected	Permissive	Permissive	Permissive	Permissive	Permissive
Signal group	5	2	6	0	3	0
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	Lead	-
Minimum Green [s]	7	7	7	0	7	0
Maximum Green [s]	120	120	120	0	120	0
Amber [s]	3.0	3.0	3.0	0.0	3.0	0.0
All red [s]	1.0	1.0	1.0	0.0	1.0	0.0
Split [s]	11	59	48	0	41	0
Vehicle Extension [s]	3.0	3.0	3.0	0.0	3.0	0.0
Walk [s]	0	7	7	0	7	0
Pedestrian Clearance [s]	0	10	10	0	10	0
Rest In Walk		No	No		No	
I1, Start-Up Lost Time [s]	2.0	2.0	2.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	2.0	0.0	2.0	0.0
Minimum Recall	No	No	No		No	
Maximum Recall	No	No	No		No	
Pedestrian Recall	No	No	No		No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	C	R	L	C
C, Cycle Length [s]	100	100	100	100	100	100
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	7	55	44	44	37	37
g / C, Green / Cycle	0.07	0.55	0.44	0.44	0.37	0.37
(v / s)_i Volume / Saturation Flow Rate	0.06	0.11	0.14	0.41	0.35	0.35
s, saturation flow rate [veh/h]	1781	1870	1870	1589	1781	1775
c, Capacity [veh/h]	126	1033	826	702	655	653
d1, Uniform Delay [s]	45.99	11.23	18.23	26.71	30.84	30.90
k, delay calibration	0.11	0.50	0.50	0.50	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	14.49	0.41	1.04	30.79	10.60	11.26
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.83	0.19	0.32	0.94	0.95	0.96
d, Delay for Lane Group [s/veh]	60.48	11.65	19.26	57.50	41.44	42.15
Lane Group LOS	E	B	B	E	D	D
Critical Lane Group	Yes	No	No	Yes	No	Yes
50th-Percentile Queue Length [veh/ln]	3.05	2.18	4.08	19.96	15.84	15.98
50th-Percentile Queue Length [ft/ln]	76.15	54.61	102.07	499.07	396.11	399.53
95th-Percentile Queue Length [veh/ln]	5.48	3.93	7.35	27.29	22.37	22.54
95th-Percentile Queue Length [ft/ln]	137.08	98.30	183.72	682.25	559.31	563.44

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	60.48	11.65	19.26	57.50	41.79	42.15
Movement LOS	E	B	B	E	D	D
d_A, Approach Delay [s/veh]	28.57		46.50		41.80	
Approach LOS	C		D		D	
d_I, Intersection Delay [s/veh]	41.94					
Intersection LOS	D					
Intersection V/C	0.937					

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	0.00	0.00
l_p,int, Pedestrian LOS Score for Intersection	0.000	0.000	0.000
Crosswalk LOS	F	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	50.00	50.00	50.00
l_b,int, Bicycle LOS Score for Intersection	4.632	5.659	6.192
Bicycle LOS	E	F	F

Sequence

Ring 1	-	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Cumulative Plus Project

Sandalwood Travel Center

Vistro File: C:\...\AM40.vistro
Report File: C:\...\AMCumWP.pdf

Scenario 2 Cumulative Plus Project Project AM Peak Hour
12/22/2020

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	7th St (NS) at Project North Dwy (EW)	Two-way stop	HCM 6th Edition	WB Left	0.111	10.3	B
2	7th St (NS) at Project Central Dwy (EW)	Two-way stop	HCM 6th Edition	WB Left	0.046	10.4	B
3	7th St (NS) at Project South Dwy (EW)	Two-way stop	HCM 6th Edition	NB Thru	0.002	0.0	A
4	7th St (NS) at Sandalwood Dr (EW)	Signalized	HCM 6th Edition	SB Left	0.513	4.4	A
5	I-10 SB Ramps (NS) at Sandalwood Dr (EW)	Signalized	HCM 6th Edition	WB Left	0.405	18.6	B
6	I-15 NB On-Ramp (NS) at Sandalwood Dr (EW)	Two-way stop	HCM 6th Edition	EB Thru	0.017	0.0	A
7	Calimesa Blvd (NS) at Sandalwood Dr (EW)	Signalized	HCM 6th Edition	SB Left	0.936	29.6	C
8	I-10 NB Off-Ramp (NS) at Calimesa Blvd (EW)	Signalized	HCM 6th Edition	NB Left	0.884	32.9	C

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: 7th St (NS) at Project North Dwy (EW)

Control Type:	Two-way stop	Delay (sec / veh):	10.3
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.111

Intersection Setup

Name						
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00		25.00		25.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		Yes	

Volumes

Name						
Base Volume Input [veh/h]	117	0	0	31	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.05	1.05	1.05	1.05	1.05	1.05
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	85	9	0	85	9
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	123	85	9	33	85	9
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	31	21	2	8	21	2
Total Analysis Volume [veh/h]	123	85	9	33	85	9
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.01	0.00	0.11	0.01
d_M, Delay for Movement [s/veh]	0.00	0.00	7.66	0.00	10.34	9.50
Movement LOS	A	A	A	A	B	A
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.02	0.00	0.41	0.41
95th-Percentile Queue Length [ft/ln]	0.00	0.00	0.50	0.00	10.29	10.29
d_A, Approach Delay [s/veh]	0.00		1.64		10.26	
Approach LOS	A		A		B	
d_I, Intersection Delay [s/veh]	3.00					
Intersection LOS	B					

Intersection Level Of Service Report
Intersection 2: 7th St (NS) at Project Central Dwy (EW)

Control Type:	Two-way stop	Delay (sec / veh):	10.4
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.046

Intersection Setup

Name						
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00		25.00		25.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		Yes	

Volumes

Name						
Base Volume Input [veh/h]	117	0	0	31	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.05	1.00	1.00	1.05	1.05	1.05
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	85	0	0	85	32	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	208	0	0	118	32	0
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	52	0	0	30	8	0
Total Analysis Volume [veh/h]	208	0	0	118	32	0
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.00	0.00	0.05	0.00
d_M, Delay for Movement [s/veh]	0.00	0.00	0.00	0.00	10.39	9.12
Movement LOS	A			A	B	A
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.00	0.00	0.14	0.14
95th-Percentile Queue Length [ft/ln]	0.00	0.00	0.00	0.00	3.59	3.59
d_A, Approach Delay [s/veh]	0.00		0.00		10.39	
Approach LOS	A		A		B	
d_I, Intersection Delay [s/veh]	0.93					
Intersection LOS	B					

Intersection Level Of Service Report
Intersection 3: 7th St (NS) at Project South Dwy (EW)

Control Type:	Two-way stop	Delay (sec / veh):	0.0
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.002

Intersection Setup

Name						
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00		25.00		25.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		Yes	

Volumes

Name						
Base Volume Input [veh/h]	117	0	0	31	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.05	1.05	1.05	1.05	1.05	1.05
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	85	32	0	117	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	208	32	0	150	0	0
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	52	8	0	38	0	0
Total Analysis Volume [veh/h]	208	32	0	150	0	0
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.00	0.00	0.00	0.00
d_M, Delay for Movement [s/veh]	0.00	0.00	7.72	0.00	10.39	8.96
Movement LOS	A	A	A	A	B	A
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.00	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.00	0.00	0.00	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	0.00		0.00		9.67	
Approach LOS	A		A		A	
d_I, Intersection Delay [s/veh]	0.00					
Intersection LOS	A					

Intersection Level Of Service Report
Intersection 4: 7th St (NS) at Sandalwood Dr (EW)

Control Type:	Signalized	Delay (sec / veh):	4.4
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.513

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	1	0	0	0
Pocket Length [ft]	100.00	100.00	200.00	100.00	100.00	100.00
Speed [mph]	25.00		25.00		25.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	26	5	0	1765	796	117
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.05	1.05	1.00	1.05	1.05	1.05
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	117	0	0	0	0	117
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	144	5	0	1853	836	240
Peak Hour Factor	1.0000	1.0000	0.8170	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	36	1	0	463	209	60
Total Analysis Volume [veh/h]	144	5	0	1853	836	240
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	8.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Permissive
Signal group	1	0	0	8	4	0
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	-	-
Minimum Green [s]	7	0	0	7	7	0
Maximum Green [s]	120	0	0	120	120	0
Amber [s]	3.0	0.0	0.0	3.0	3.0	0.0
All red [s]	1.0	0.0	0.0	1.0	1.0	0.0
Split [s]	39	0	0	21	21	0
Vehicle Extension [s]	3.0	0.0	0.0	3.0	3.0	0.0
Walk [s]	7	0	0	7	7	0
Pedestrian Clearance [s]	10	0	0	10	10	0
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	0.0	0.0	2.0	2.0	0.0
Minimum Recall	No			No	No	
Maximum Recall	No			No	No	
Pedestrian Recall	No			No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	R	C	C	C
C, Cycle Length [s]	60	60	60	60	60
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	7	7	46	46	46
g / C, Green / Cycle	0.11	0.11	0.76	0.76	0.76
(v / s)_i Volume / Saturation Flow Rate	0.08	0.00	0.36	0.20	0.21
s, saturation flow rate [veh/h]	1781	1589	5094	3560	1672
c, Capacity [veh/h]	196	175	3856	2695	1266
d1, Uniform Delay [s]	25.93	23.91	2.79	2.22	2.26
k, delay calibration	0.11	0.11	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	5.44	0.07	0.43	0.24	0.56
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.74	0.03	0.48	0.27	0.28
d, Delay for Lane Group [s/veh]	31.38	23.98	3.22	2.47	2.82
Lane Group LOS	C	C	A	A	A
Critical Lane Group	Yes	No	Yes	No	No
50th-Percentile Queue Length [veh/ln]	2.21	0.06	1.49	0.71	0.83
50th-Percentile Queue Length [ft/ln]	55.26	1.61	37.34	17.76	20.69
95th-Percentile Queue Length [veh/ln]	3.98	0.12	2.69	1.28	1.49
95th-Percentile Queue Length [ft/ln]	99.47	2.90	67.20	31.96	37.23

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	31.38	23.98	0.00	3.22	2.52	2.82
Movement LOS	C	C		A	A	A
d_A, Approach Delay [s/veh]	31.13		3.22		2.58	
Approach LOS	C		A		A	
d_I, Intersection Delay [s/veh]	4.35					
Intersection LOS	A					
Intersection V/C	0.513					

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	20.01	20.01	20.01
l_p,int, Pedestrian LOS Score for Intersection	2.188	2.795	2.846
Crosswalk LOS	B	C	C
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	30.00	30.00	30.00
l_b,int, Bicycle LOS Score for Intersection	4.132	5.152	4.724
Bicycle LOS	D	F	E

Sequence

Ring 1	1	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 5: I-10 SB Ramps (NS) at Sandalwood Dr (EW)

Control Type:	Signalized	Delay (sec / veh):	18.6
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.405

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]		30.00			30.00			25.00			25.00	
Grade [%]		0.00			0.00			0.00			0.00	
Curb Present					No			No			No	
Crosswalk		No			Yes			No			No	

Volumes

Name												
Base Volume Input [veh/h]	0	0	0	149	12	364	0	354	439	254	550	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.05	1.05	1.05	1.00	1.05	1.05	1.05	1.05	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	38	0	79	38	0	79	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	0	156	13	420	0	451	499	267	657	0
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	0	39	3	0	0	113	125	67	164	0
Total Analysis Volume [veh/h]	0	0	0	156	13	0	0	451	499	267	657	0
Presence of On-Street Parking				No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing		0			0			0			0	
v_di, Inbound Pedestrian Volume crossing m		0			0			0			0	
v_co, Outbound Pedestrian Volume crossing		0			0			0			0	
v_ci, Inbound Pedestrian Volume crossing mi		0			0			0			0	
v_ab, Corner Pedestrian Volume [ped/h]		0			0			0			0	
Bicycle Volume [bicycles/h]		0			0			0			0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	0	0	0	0	6	0	0	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	Lead	-	-
Minimum Green [s]	0	0	0	0	7	0	0	7	0	7	7	0
Maximum Green [s]	0	0	0	0	120	0	0	120	0	120	120	0
Amber [s]	0.0	0.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	3.0	3.0	0.0
All red [s]	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	1.0	1.0	0.0
Split [s]	0	0	0	0	11	0	0	11	0	38	49	0
Vehicle Extension [s]	0.0	0.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	0	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	0	0	0	10	0	0	10	0	0	10	0
Rest In Walk					No			No			No	
I1, Start-Up Lost Time [s]	0.0	0.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	0.0	0.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall					No			No		No	No	
Maximum Recall					No			No		No	No	
Pedestrian Recall					No			No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group		L	C	R	C	C	R	L	C
C, Cycle Length [s]		60	60	60	60	60	60	60	60
L, Total Lost Time per Cycle [s]		4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]		2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]		25	25	25	16	16	16	7	27
g / C, Green / Cycle		0.42	0.42	0.42	0.26	0.26	0.26	0.12	0.45
(v / s)_i Volume / Saturation Flow Rate		0.05	0.05	0.00	0.17	0.20	0.20	0.08	0.18
s, saturation flow rate [veh/h]		1781	1794	1589	1870	1589	1589	3459	3560
c, Capacity [veh/h]		746	751	665	490	416	416	415	1596
d1, Uniform Delay [s]		10.67	10.67	0.00	19.72	20.46	20.46	25.24	11.22
k, delay calibration		0.50	0.50	0.50	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]		0.31	0.30	0.00	1.45	2.95	2.95	1.69	0.17
d3, Initial Queue Delay [s]		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity		0.11	0.11	0.00	0.65	0.76	0.76	0.64	0.41
d, Delay for Lane Group [s/veh]		10.98	10.97	0.00	21.17	23.41	23.41	26.93	11.39
Lane Group LOS		B	B	A	C	C	C	C	B
Critical Lane Group		Yes	No	No	No	Yes	No	Yes	No
50th-Percentile Queue Length [veh/ln]		0.67	0.67	0.00	3.88	4.16	4.16	1.84	2.68
50th-Percentile Queue Length [ft/ln]		16.63	16.69	0.00	97.08	104.12	104.12	45.98	67.11
95th-Percentile Queue Length [veh/ln]		1.20	1.20	0.00	6.99	7.50	7.50	3.31	4.83
95th-Percentile Queue Length [ft/ln]		29.94	30.04	0.00	174.75	187.41	187.41	82.77	120.80

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	0.00	0.00	0.00	10.98	10.97	0.00	0.00	21.17	23.41	26.93	11.39	0.00
Movement LOS				B	B	A		C	C	C	B	
d_A, Approach Delay [s/veh]	0.00			10.98			22.66			15.88		
Approach LOS	A			B			C			B		
d_I, Intersection Delay [s/veh]	18.63											
Intersection LOS	B											
Intersection V/C	0.405											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	11.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	20.01	0.00	0.00
l_p,int, Pedestrian LOS Score for Intersection	0.000	1.973	0.000	0.000
Crosswalk LOS	F	A	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	233	233	1500
d_b, Bicycle Delay [s]	30.00	23.41	23.41	1.88
l_b,int, Bicycle LOS Score for Intersection	4.132	1.838	2.343	2.322
Bicycle LOS	D	A	B	B

Sequence

Ring 1	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 6: I-15 NB On-Ramp (NS) at Sandalwood Dr (EW)

Control Type:	Two-way stop	Delay (sec / veh):	0.0
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.017

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		25.00		25.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		No		No	

Volumes

Name						
Base Volume Input [veh/h]	0	0	0	1503	805	300
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.05	1.05	1.05
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	79	79	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	0	1657	924	315
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
Total 15-Minute Volume [veh/h]	0	0	0	414	231	0
Total Analysis Volume [veh/h]	0	0	0	1657	924	0
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Stop		Free		Free	
Flared Lane						
Storage Area [veh]	0		0		0	
Two-Stage Gap Acceptance						
Number of Storage Spaces in Median	0		0		0	

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.00	0.02	0.01	0.00
d_M, Delay for Movement [s/veh]	0.00	0.00	0.00	0.00	0.00	0.00
Movement LOS				A	A	A
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.00	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.00	0.00	0.00	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	0.00		0.00		0.00	
Approach LOS	A		A		A	
d_I, Intersection Delay [s/veh]	0.00					
Intersection LOS	A					

Intersection Level Of Service Report
Intersection 7: Calimesa Blvd (NS) at Sandalwood Dr (EW)

Control Type:	Signalized	Delay (sec / veh):	29.6
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.936

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	0
Pocket Length [ft]	125.00	100.00	100.00	75.00	100.00	100.00	50.00	100.00	100.00	50.00	100.00	100.00
Speed [mph]	30.00			35.00			25.00			25.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			No			Yes		

Volumes

Name												
Base Volume Input [veh/h]	328	319	289	15	70	295	208	636	660	38	482	35
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	47	0	0	0	0	11	11	21	47	0	21	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	391	335	303	16	74	321	229	689	740	40	527	37
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	98	84	76	4	19	80	57	172	185	10	132	9
Total Analysis Volume [veh/h]	391	335	303	16	74	321	229	689	740	40	527	37
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	85
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	6	3	8	0	7	4	0
Auxiliary Signal Groups						3,6						
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	7	7	7	0	7	7	0
Maximum Green [s]	120	120	0	120	120	120	120	120	0	120	120	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	21	21	0	11	11	11	26	42	0	11	27	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	7	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	10	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No	No	No	No		No	No	
Maximum Recall	No	No		No	No	No	No	No		No	No	
Pedestrian Recall	No	No		No	No	No	No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	R	L	C	C
C, Cycle Length [s]	85	85	85	85	85	85	85	85	85	85	85	85
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	0.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	12	22	22	2	12	32	16	41	41	4	29	29
g / C, Green / Cycle	0.14	0.26	0.26	0.03	0.14	0.38	0.19	0.48	0.48	0.05	0.34	0.34
(v / s)_i Volume / Saturation Flow Rate	0.11	0.18	0.19	0.01	0.04	0.20	0.13	0.19	0.47	0.02	0.15	0.15
s, saturation flow rate [veh/h]	3459	1870	1589	1781	1870	1589	1781	3560	1589	1781	1870	1827
c, Capacity [veh/h]	486	482	410	46	268	604	338	1700	759	90	632	618
d1, Uniform Delay [s]	35.41	28.53	28.93	40.69	32.48	20.46	32.02	14.38	21.71	39.21	21.96	21.97
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.11	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	3.28	8.38	12.15	4.42	2.56	0.73	2.41	0.16	14.91	3.47	0.50	0.52
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.81	0.69	0.74	0.35	0.28	0.53	0.68	0.41	0.97	0.45	0.45	0.45
d, Delay for Lane Group [s/veh]	38.69	36.90	41.08	45.11	35.03	21.19	34.42	14.54	36.62	42.68	22.47	22.49
Lane Group LOS	D	D	D	D	D	C	C	B	D	D	C	C
Critical Lane Group	Yes	No	No	No	No	Yes	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	4.06	7.10	6.87	0.38	1.51	4.76	4.55	4.16	16.52	0.90	4.44	4.36
50th-Percentile Queue Length [ft/ln]	101.49	177.57	171.74	9.45	37.75	118.99	113.81	104.10	413.08	22.38	111.09	109.03
95th-Percentile Queue Length [veh/ln]	7.31	11.47	11.17	0.68	2.72	8.34	8.05	7.50	23.19	1.61	7.90	7.79
95th-Percentile Queue Length [ft/ln]	182.67	286.84	279.20	17.01	67.96	208.43	201.29	187.39	579.74	40.29	197.52	194.65

Movement, Approach, & Intersection Results

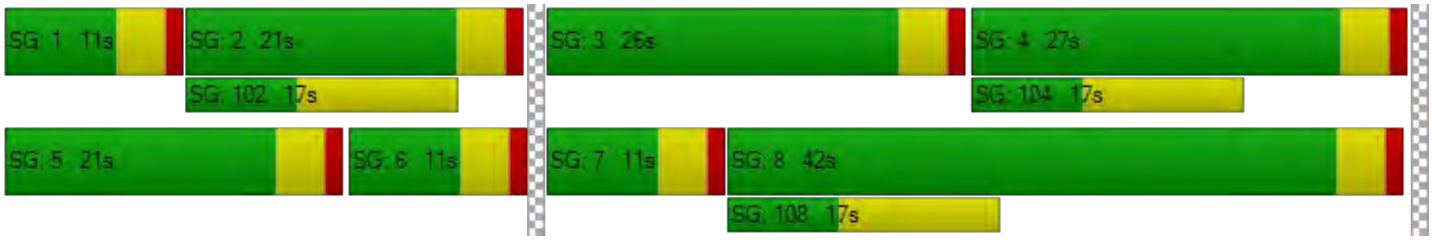
d_M, Delay for Movement [s/veh]	38.69	36.90	41.08	45.11	35.03	21.19	34.42	14.54	36.62	42.68	22.48	22.49
Movement LOS	D	D	D	D	D	C	C	B	D	D	C	C
d_A, Approach Delay [s/veh]	38.81			24.61			27.14			23.82		
Approach LOS	D			C			C			C		
d_I, Intersection Delay [s/veh]	29.56											
Intersection LOS	C											
Intersection V/C	0.936											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	0.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	32.21	32.21	0.00	32.21
I_p,int, Pedestrian LOS Score for Intersection	2.755	2.415	0.000	2.558
Crosswalk LOS	C	B	F	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	400	165	894	541
d_b, Bicycle Delay [s]	27.20	35.79	12.99	22.61
I_b,int, Bicycle LOS Score for Intersection	3.257	2.238	2.927	2.058
Bicycle LOS	C	B	C	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 8: I-10 NB Off-Ramp (NS) at Calimesa Blvd (EW)

Control Type:	Signalized	Delay (sec / veh):	32.9
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.884

Intersection Setup

Name						
Approach	Northbound		Southbound		Eastbound	
Lane Configuration						
Turning Movement	Left	Thru	Thru	Right	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	35.00		35.00		35.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	No		No		No	

Volumes

Name						
Base Volume Input [veh/h]	100	155	127	639	781	17
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.05	1.05	1.05	1.05	1.05	1.05
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	9	9	38	38	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	105	172	142	709	858	18
Peak Hour Factor	1.0000	0.8960	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	26	48	36	177	215	5
Total Analysis Volume [veh/h]	105	192	142	709	858	18
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	80
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Protected	Permissive	Permissive	Permissive	Permissive	Permissive
Signal group	5	2	6	0	3	0
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	Lead	-
Minimum Green [s]	7	7	7	0	7	0
Maximum Green [s]	120	120	120	0	120	0
Amber [s]	3.0	3.0	3.0	0.0	3.0	0.0
All red [s]	1.0	1.0	1.0	0.0	1.0	0.0
Split [s]	44	55	11	0	25	0
Vehicle Extension [s]	3.0	3.0	3.0	0.0	3.0	0.0
Walk [s]	0	7	7	0	7	0
Pedestrian Clearance [s]	0	10	10	0	10	0
Rest In Walk		No	No		No	
I1, Start-Up Lost Time [s]	2.0	2.0	2.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	2.0	0.0	2.0	0.0
Minimum Recall	No	No	No		No	
Maximum Recall	No	No	No		No	
Pedestrian Recall	No	No	No		No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	C	R	L	C
C, Cycle Length [s]	80	80	80	80	80	80
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	6	51	41	41	21	21
g / C, Green / Cycle	0.08	0.64	0.51	0.51	0.26	0.26
(v / s)_i Volume / Saturation Flow Rate	0.06	0.09	0.08	0.45	0.25	0.25
s, saturation flow rate [veh/h]	1781	1870	1870	1589	1781	1772
c, Capacity [veh/h]	144	1192	948	805	468	466
d1, Uniform Delay [s]	36.02	5.81	10.57	17.63	28.94	28.97
k, delay calibration	0.11	0.50	0.50	0.50	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	7.09	0.25	0.33	15.34	11.21	11.75
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.73	0.14	0.15	0.88	0.94	0.94
d, Delay for Lane Group [s/veh]	43.11	6.06	10.91	32.98	40.15	40.72
Lane Group LOS	D	A	B	C	D	D
Critical Lane Group	Yes	No	No	Yes	No	Yes
50th-Percentile Queue Length [veh/ln]	2.22	1.02	1.29	13.48	9.19	9.25
50th-Percentile Queue Length [ft/ln]	55.56	25.59	32.37	337.05	229.87	231.26
95th-Percentile Queue Length [veh/ln]	4.00	1.84	2.33	19.50	14.17	14.24
95th-Percentile Queue Length [ft/ln]	100.00	46.06	58.26	487.59	354.20	355.96

Movement, Approach, & Intersection Results

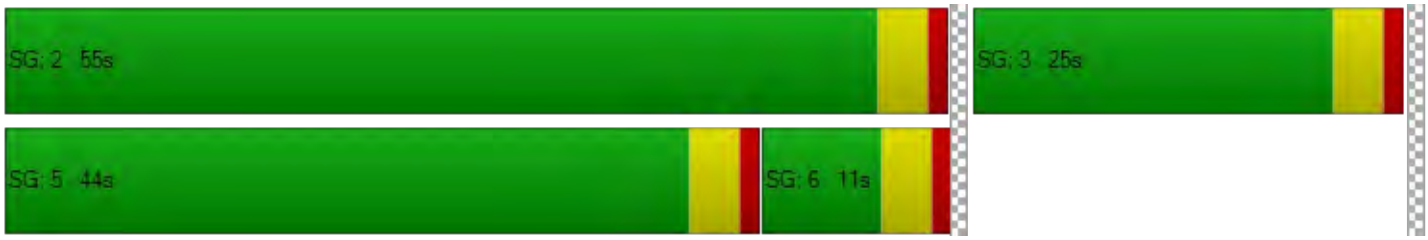
d_M, Delay for Movement [s/veh]	43.11	6.06	10.91	32.98	40.43	40.72
Movement LOS	D	A	B	C	D	D
d_A, Approach Delay [s/veh]	20.11		29.29		40.44	
Approach LOS	C		C		D	
d_I, Intersection Delay [s/veh]	32.89					
Intersection LOS	C					
Intersection V/C	0.884					

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	0.00	0.00
l_p,int, Pedestrian LOS Score for Intersection	0.000	0.000	0.000
Crosswalk LOS	F	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	40.00	40.00	40.00
l_b,int, Bicycle LOS Score for Intersection	4.589	5.537	5.578
Bicycle LOS	E	F	F

Sequence

Ring 1	-	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Sandalwood Travel Center

Vistro File: C:\...\PM40.vistro
Report File: C:\...\PMCumWP.pdf

Scenario 2 Cumulative Plus Project PM Peak Hour
12/22/2020

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	7th St (NS) at Project North Dwy (EW)	Two-way stop	HCM 6th Edition	WB Left	0.151	11.7	B
2	7th St (NS) at Project Central Dwy (EW)	Two-way stop	HCM 6th Edition	WB Left	0.043	11.5	B
3	7th St (NS) at Project South Dwy (EW)	Two-way stop	HCM 6th Edition	SB Thru	0.003	0.0	A
4	7th St (NS) at Sandalwood Dr (EW)	Signalized	HCM 6th Edition	SB Left	0.610	7.5	A
5	I-10 SB Ramps (NS) at Sandalwood Dr (EW)	Signalized	HCM 6th Edition	SB Left	0.909	21.6	C
6	I-15 NB On-Ramp (NS) at Sandalwood Dr (EW)	Two-way stop	HCM 6th Edition	EB Thru	0.017	0.0	A
7	Calimesa Blvd (NS) at Sandalwood Dr (EW)	Signalized	HCM 6th Edition	SB Right	1.020	53.5	D
8	I-10 NB Off-Ramp (NS) at Calimesa Blvd (EW)	Signalized	HCM 6th Edition	NB Left	0.955	50.4	D

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: 7th St (NS) at Project North Dwy (EW)

Control Type:	Two-way stop	Delay (sec / veh):	11.7
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.151

Intersection Setup

Name						
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00		25.00		25.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		Yes	

Volumes

Name						
Base Volume Input [veh/h]	160	0	0	156	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.05	1.05	1.05	1.05	1.05	1.05
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	98	11	0	97	11
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	168	98	11	164	97	11
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	42	25	3	41	24	3
Total Analysis Volume [veh/h]	168	98	11	164	97	11
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.01	0.00	0.15	0.01
d_M, Delay for Movement [s/veh]	0.00	0.00	7.80	0.00	11.67	10.10
Movement LOS	A	A	A	A	B	B
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.03	0.00	0.58	0.58
95th-Percentile Queue Length [ft/ln]	0.00	0.00	0.64	0.00	14.62	14.62
d_A, Approach Delay [s/veh]	0.00		0.49		11.51	
Approach LOS	A		A		B	
d_I, Intersection Delay [s/veh]	2.42					
Intersection LOS	B					

Intersection Level Of Service Report
Intersection 2: 7th St (NS) at Project Central Dwy (EW)

Control Type:	Two-way stop	Delay (sec / veh):	11.5
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.043

Intersection Setup

Name						
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00		25.00		25.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		Yes	

Volumes

Name						
Base Volume Input [veh/h]	160	0	0	156	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.05	1.00	1.00	1.05	1.05	1.05
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	98	0	0	97	25	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	266	0	0	261	25	0
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	67	0	0	65	6	0
Total Analysis Volume [veh/h]	266	0	0	261	25	0
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.00	0.00	0.04	0.00
d_M, Delay for Movement [s/veh]	0.00	0.00	0.00	0.00	11.48	9.32
Movement LOS	A			A	B	A
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.00	0.00	0.13	0.13
95th-Percentile Queue Length [ft/ln]	0.00	0.00	0.00	0.00	3.37	3.37
d_A, Approach Delay [s/veh]	0.00		0.00		11.48	
Approach LOS	A		A		B	
d_I, Intersection Delay [s/veh]	0.52					
Intersection LOS	B					

Intersection Level Of Service Report
Intersection 3: 7th St (NS) at Project South Dwy (EW)

Control Type:	Two-way stop	Delay (sec / veh):	0.0
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.003

Intersection Setup

Name						
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00		25.00		25.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		Yes	

Volumes

Name						
Base Volume Input [veh/h]	160	0	0	156	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.05	1.05	1.05	1.05	1.05	1.05
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	98	26	0	122	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	266	26	0	286	0	0
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	67	7	0	72	0	0
Total Analysis Volume [veh/h]	266	26	0	286	0	0
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.00	0.00	0.00	0.00
d_M, Delay for Movement [s/veh]	0.00	0.00	7.84	0.00	11.43	9.12
Movement LOS	A	A	A	A	B	A
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.00	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.00	0.00	0.00	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	0.00		0.00		10.27	
Approach LOS	A		A		B	
d_I, Intersection Delay [s/veh]	0.00					
Intersection LOS	A					

Intersection Level Of Service Report
Intersection 4: 7th St (NS) at Sandalwood Dr (EW)

Control Type:	Signalized	Delay (sec / veh):	7.5
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.610

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	1	0	0	0
Pocket Length [ft]	100.00	100.00	200.00	100.00	100.00	100.00
Speed [mph]	25.00		25.00		25.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	156	2	0	1488	1540	160
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.05	1.05	1.00	1.05	1.05	1.05
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	122	0	0	0	0	124
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	286	2	0	1562	1617	292
Peak Hour Factor	1.0000	1.0000	0.8170	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	72	1	0	391	404	73
Total Analysis Volume [veh/h]	286	2	0	1562	1617	292
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	8.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Permissive
Signal group	1	0	0	8	4	0
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	-	-
Minimum Green [s]	7	0	0	7	7	0
Maximum Green [s]	120	0	0	120	120	0
Amber [s]	3.0	0.0	0.0	3.0	3.0	0.0
All red [s]	1.0	0.0	0.0	1.0	1.0	0.0
Split [s]	39	0	0	21	21	0
Vehicle Extension [s]	3.0	0.0	0.0	3.0	3.0	0.0
Walk [s]	7	0	0	7	7	0
Pedestrian Clearance [s]	10	0	0	10	10	0
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	0.0	0.0	2.0	2.0	0.0
Minimum Recall	No			No	No	
Maximum Recall	No			No	No	
Pedestrian Recall	No			No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	R	C	C	C
C, Cycle Length [s]	60	60	60	60	60
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	12	12	40	40	40
g / C, Green / Cycle	0.20	0.20	0.67	0.67	0.67
(v / s)_i Volume / Saturation Flow Rate	0.16	0.00	0.31	0.36	0.37
s, saturation flow rate [veh/h]	1781	1589	5094	3560	1730
c, Capacity [veh/h]	354	316	3404	2379	1156
d1, Uniform Delay [s]	23.01	19.34	4.78	5.16	5.24
k, delay calibration	0.11	0.11	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	4.55	0.01	0.45	0.87	1.90
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.81	0.01	0.46	0.53	0.55
d, Delay for Lane Group [s/veh]	27.56	19.35	5.23	6.02	7.14
Lane Group LOS	C	B	A	A	A
Critical Lane Group	Yes	No	No	No	Yes
50th-Percentile Queue Length [veh/ln]	4.10	0.02	2.29	3.12	3.49
50th-Percentile Queue Length [ft/ln]	102.61	0.55	57.31	78.10	87.36
95th-Percentile Queue Length [veh/ln]	7.39	0.04	4.13	5.62	6.29
95th-Percentile Queue Length [ft/ln]	184.70	1.00	103.16	140.58	157.25

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	27.56	19.35	0.00	5.23	6.26	7.14
Movement LOS	C	B		A	A	A
d_A, Approach Delay [s/veh]	27.50		5.23		6.40	
Approach LOS	C		A		A	
d_I, Intersection Delay [s/veh]	7.53					
Intersection LOS	A					
Intersection V/C	0.610					

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	20.01	20.01	20.01
l_p,int, Pedestrian LOS Score for Intersection	2.226	2.861	2.939
Crosswalk LOS	B	C	C
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	30.00	30.00	30.00
l_b,int, Bicycle LOS Score for Intersection	4.132	4.992	5.182
Bicycle LOS	D	E	F

Sequence

Ring 1	1	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 5: I-10 SB Ramps (NS) at Sandalwood Dr (EW)

Control Type:	Signalized	Delay (sec / veh):	21.6
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.909

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]		30.00			30.00			25.00			25.00	
Grade [%]		0.00			0.00			0.00			0.00	
Curb Present					No			No			No	
Crosswalk		No			Yes			No			No	

Volumes

Name												
Base Volume Input [veh/h]	0	0	0	530	9	651	0	1191	453	582	1048	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.05	1.05	1.05	1.00	1.05	1.05	1.05	1.05	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	39	0	84	38	0	85	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	0	557	9	723	0	1335	514	611	1185	0
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	0	139	2	0	0	334	129	153	296	0
Total Analysis Volume [veh/h]	0	0	0	557	9	0	0	1335	514	611	1185	0
Presence of On-Street Parking				No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing		0			0			0			0	
v_di, Inbound Pedestrian Volume crossing m		0			0			0			0	
v_co, Outbound Pedestrian Volume crossing		0			0			0			0	
v_ci, Inbound Pedestrian Volume crossing mi		0			0			0			0	
v_ab, Corner Pedestrian Volume [ped/h]		0			0			0			0	
Bicycle Volume [bicycles/h]		0			0			0			0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	0	0	0	0	6	0	0	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	Lead	-	-
Minimum Green [s]	0	0	0	0	7	0	0	7	0	7	7	0
Maximum Green [s]	0	0	0	0	120	0	0	120	0	120	120	0
Amber [s]	0.0	0.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	3.0	3.0	0.0
All red [s]	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	1.0	1.0	0.0
Split [s]	0	0	0	0	16	0	0	29	0	15	44	0
Vehicle Extension [s]	0.0	0.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	0	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	0	0	0	10	0	0	10	0	0	10	0
Rest In Walk					No			No			No	
I1, Start-Up Lost Time [s]	0.0	0.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	0.0	0.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall					No			No		No	No	
Maximum Recall					No			No		No	No	
Pedestrian Recall					No			No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group		L	C	R	C	C	R	L	C
C, Cycle Length [s]		60	60	60	60	60	60	60	60
L, Total Lost Time per Cycle [s]		4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]		2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]		12	12	12	25	25	25	11	40
g / C, Green / Cycle		0.20	0.20	0.20	0.41	0.41	0.41	0.18	0.66
(v / s)_i Volume / Saturation Flow Rate		0.16	0.16	0.00	0.36	0.39	0.32	0.18	0.33
s, saturation flow rate [veh/h]		1781	1784	1589	1870	1703	1589	3459	3560
c, Capacity [veh/h]		364	365	325	771	702	655	635	2358
d1, Uniform Delay [s]		22.60	22.60	0.00	16.14	17.07	15.34	24.32	5.13
k, delay calibration		0.50	0.50	0.50	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]		16.51	16.48	0.00	3.21	9.66	2.15	13.16	0.17
d3, Initial Queue Delay [s]		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity		0.78	0.78	0.00	0.87	0.95	0.78	0.96	0.50
d, Delay for Lane Group [s/veh]		39.11	39.08	0.00	19.35	26.73	17.48	37.48	5.30
Lane Group LOS		D	D	A	B	C	B	D	A
Critical Lane Group		Yes	No	No	No	Yes	No	Yes	No
50th-Percentile Queue Length [veh/ln]		5.17	5.17	0.00	8.08	9.70	5.80	5.23	2.67
50th-Percentile Queue Length [ft/ln]		129.22	129.34	0.00	201.95	242.47	144.97	130.68	66.83
95th-Percentile Queue Length [veh/ln]		8.90	8.90	0.00	12.74	14.81	9.75	8.98	4.81
95th-Percentile Queue Length [ft/ln]		222.43	222.60	0.00	318.48	370.16	243.70	224.41	120.29

Movement, Approach, & Intersection Results

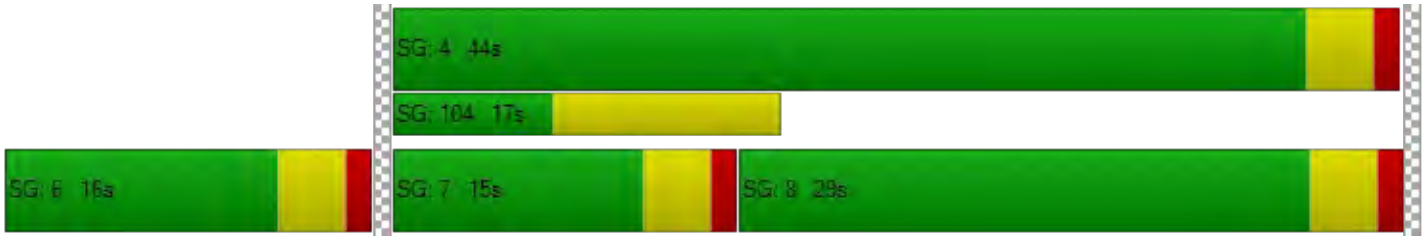
d_M, Delay for Movement [s/veh]	0.00	0.00	0.00	39.09	39.08	0.00	0.00	21.62	17.48	37.48	5.30	0.00
Movement LOS				D	D	A		C	B	D	A	
d_A, Approach Delay [s/veh]	0.00			39.09			21.49			16.25		
Approach LOS	A			D			C			B		
d_I, Intersection Delay [s/veh]	21.62											
Intersection LOS	C											
Intersection V/C	0.909											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	11.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	20.01	0.00	0.00
l_p,int, Pedestrian LOS Score for Intersection	0.000	2.102	0.000	0.000
Crosswalk LOS	F	B	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	400	833	1333
d_b, Bicycle Delay [s]	30.00	19.20	10.21	3.33
l_b,int, Bicycle LOS Score for Intersection	4.132	2.494	3.085	3.041
Bicycle LOS	D	B	C	C

Sequence

Ring 1	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 6: I-15 NB On-Ramp (NS) at Sandalwood Dr (EW)

Control Type:	Two-way stop	Delay (sec / veh):	0.0
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.017

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		25.00		25.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		No		No	

Volumes

Name						
Base Volume Input [veh/h]	0	0	0	1503	805	300
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.00	1.00	1.00	1.05	1.05	1.05
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	84	85	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	0	1662	930	315
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
Total 15-Minute Volume [veh/h]	0	0	0	416	233	0
Total Analysis Volume [veh/h]	0	0	0	1662	930	0
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane			
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.00	0.02	0.01	0.00
d_M, Delay for Movement [s/veh]	0.00	0.00	0.00	0.00	0.00	0.00
Movement LOS				A	A	A
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.00	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.00	0.00	0.00	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	0.00		0.00		0.00	
Approach LOS	A		A		A	
d_I, Intersection Delay [s/veh]	0.00					
Intersection LOS	A					

Intersection Level Of Service Report
Intersection 7: Calimesa Blvd (NS) at Sandalwood Dr (EW)

Control Type:	Signalized	Delay (sec / veh):	53.5
Analysis Method:	HCM 6th Edition	Level Of Service:	D
Analysis Period:	1 hour	Volume to Capacity (v/c):	1.020

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	0
Pocket Length [ft]	125.00	100.00	100.00	75.00	100.00	100.00	50.00	100.00	100.00	50.00	100.00	100.00
Speed [mph]	30.00			35.00			25.00			25.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			No			Yes		

Volumes

Name												
Base Volume Input [veh/h]	614	407	340	38	143	613	335	703	682	58	679	27
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	50	0	0	0	0	12	12	23	49	0	23	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	695	427	357	40	150	656	364	761	765	61	736	28
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	174	107	89	10	38	164	91	190	191	15	184	7
Total Analysis Volume [veh/h]	695	427	357	40	150	656	364	761	765	61	736	28
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	120
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	6	3	8	0	7	4	0
Auxiliary Signal Groups						3,6						
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	7	7	7	0	7	7	0
Maximum Green [s]	120	120	0	120	120	120	120	120	0	120	120	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	29	26	0	23	20	20	47	60	0	11	24	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	7	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	10	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No	No	No	No		No	No	
Maximum Recall	No	No		No	No	No	No	No		No	No	
Pedestrian Recall	No	No		No	No	No	No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	R	L	C	C
C, Cycle Length [s]	120	120	120	120	120	120	120	120	120	120	120	120
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	0.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	25	36	36	5	16	49	29	57	57	6	34	34
g / C, Green / Cycle	0.21	0.30	0.30	0.04	0.13	0.41	0.24	0.47	0.47	0.05	0.29	0.29
(v / s)_i Volume / Saturation Flow Rate	0.20	0.23	0.22	0.02	0.08	0.41	0.20	0.21	0.48	0.03	0.21	0.21
s, saturation flow rate [veh/h]	3459	1870	1589	1781	1870	1589	1781	3560	1589	1781	1870	1846
c, Capacity [veh/h]	720	559	475	77	251	647	427	1687	753	90	533	526
d1, Uniform Delay [s]	47.11	38.23	38.04	56.24	48.96	35.61	43.63	21.14	31.59	56.02	38.64	38.65
k, delay calibration	0.11	0.11	0.11	0.11	0.50	0.11	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	12.48	2.23	2.45	5.49	10.57	48.32	5.18	0.19	48.06	8.78	1.88	1.91
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.97	0.76	0.75	0.52	0.60	1.01	0.85	0.45	1.02	0.67	0.72	0.72
d, Delay for Lane Group [s/veh]	59.59	40.46	40.50	61.73	59.53	83.93	48.81	21.33	79.65	64.79	40.53	40.56
Lane Group LOS	E	D	D	E	E	F	D	C	F	E	D	D
Critical Lane Group	Yes	No	No	No	No	Yes	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	11.48	11.69	9.76	1.30	4.94	26.87	11.00	7.25	31.35	2.05	10.52	10.40
50th-Percentile Queue Length [ft/ln]	286.89	292.16	243.97	32.38	123.47	671.85	275.03	181.15	783.82	51.30	263.09	259.90
95th-Percentile Queue Length [veh/ln]	17.03	17.29	14.88	2.33	8.58	35.75	16.44	11.66	41.05	3.69	15.84	15.68
95th-Percentile Queue Length [ft/ln]	425.78	432.32	372.05	58.29	214.59	893.85	411.02	291.52	1026.26	92.34	396.10	392.10

Movement, Approach, & Intersection Results

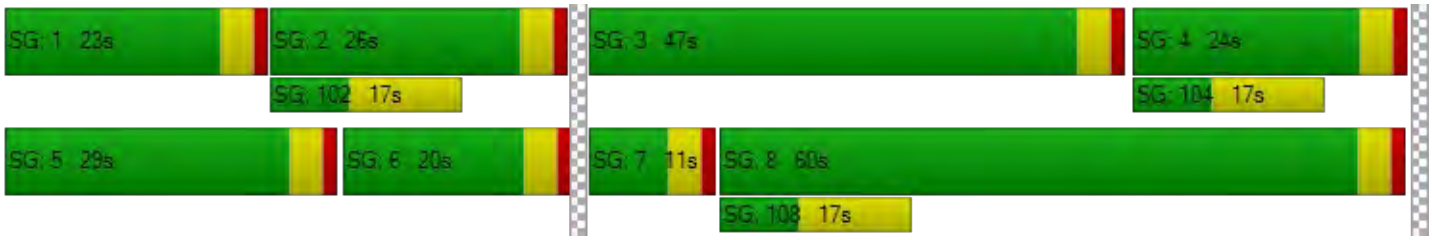
d_M, Delay for Movement [s/veh]	59.59	40.46	40.50	61.73	59.53	83.93	48.81	21.33	79.65	64.79	40.54	40.56
Movement LOS	E	D	D	E	E	F	D	C	F	E	D	D
d_A, Approach Delay [s/veh]	49.46			78.55			50.23			42.33		
Approach LOS	D			E			D			D		
d_I, Intersection Delay [s/veh]	53.47											
Intersection LOS	D											
Intersection V/C	1.020											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	0.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	49.50	49.50	0.00	49.50
l_p,int, Pedestrian LOS Score for Intersection	2.866	2.618	0.000	2.636
Crosswalk LOS	C	B	F	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	367	267	933	333
d_b, Bicycle Delay [s]	40.02	45.07	17.07	41.67
l_b,int, Bicycle LOS Score for Intersection	4.000	2.956	3.119	2.240
Bicycle LOS	D	C	C	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 8: I-10 NB Off-Ramp (NS) at Calimesa Blvd (EW)

Control Type:	Signalized	Delay (sec / veh):	50.4
Analysis Method:	HCM 6th Edition	Level Of Service:	D
Analysis Period:	1 hour	Volume to Capacity (v/c):	0.955

Intersection Setup

Name						
Approach	Northbound		Southbound		Eastbound	
Lane Configuration						
Turning Movement	Left	Thru	Thru	Right	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	35.00		35.00		35.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	No		No		No	

Volumes

Name						
Base Volume Input [veh/h]	100	189	253	628	1172	16
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.05	1.05	1.05	1.05	1.05	1.05
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	11	11	38	39	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	105	209	277	697	1270	17
Peak Hour Factor	1.0000	0.8960	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	26	58	69	174	318	4
Total Analysis Volume [veh/h]	105	233	277	697	1270	17
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	120
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Protected	Permissive	Permissive	Permissive	Permissive	Permissive
Signal group	5	2	6	0	3	0
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	Lead	-
Minimum Green [s]	7	7	7	0	7	0
Maximum Green [s]	120	120	120	0	120	0
Amber [s]	3.0	3.0	3.0	0.0	3.0	0.0
All red [s]	1.0	1.0	1.0	0.0	1.0	0.0
Split [s]	12	71	59	0	49	0
Vehicle Extension [s]	3.0	3.0	3.0	0.0	3.0	0.0
Walk [s]	0	7	7	0	7	0
Pedestrian Clearance [s]	0	10	10	0	10	0
Rest In Walk		No	No		No	
I1, Start-Up Lost Time [s]	2.0	2.0	2.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	2.0	0.0	2.0	0.0
Minimum Recall	No	No	No		No	
Maximum Recall	No	No	No		No	
Pedestrian Recall	No	No	No		No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	C	R	L	C
C, Cycle Length [s]	120	120	120	120	120	120
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	8	67	55	55	45	45
g / C, Green / Cycle	0.07	0.56	0.46	0.46	0.37	0.37
(v / s)_i Volume / Saturation Flow Rate	0.06	0.11	0.15	0.44	0.36	0.36
s, saturation flow rate [veh/h]	1781	1870	1870	1589	1781	1775
c, Capacity [veh/h]	120	1045	857	728	667	665
d1, Uniform Delay [s]	55.56	13.17	20.72	31.43	36.83	36.89
k, delay calibration	0.11	0.50	0.50	0.50	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	20.63	0.43	1.00	37.14	13.20	14.14
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.87	0.20	0.32	0.96	0.96	0.97
d, Delay for Lane Group [s/veh]	76.19	13.60	21.72	68.57	50.03	51.03
Lane Group LOS	E	B	C	E	D	D
Critical Lane Group	Yes	No	No	Yes	No	Yes
50th-Percentile Queue Length [veh/ln]	3.81	2.85	5.10	26.07	20.35	20.54
50th-Percentile Queue Length [ft/ln]	95.36	71.37	127.50	651.80	508.70	513.61
95th-Percentile Queue Length [veh/ln]	6.87	5.14	8.80	34.45	27.75	27.98
95th-Percentile Queue Length [ft/ln]	171.66	128.46	220.09	861.15	693.64	699.44

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	76.19	13.60	21.72	68.57	50.52	51.03
Movement LOS	E	B	C	E	D	D
d_A, Approach Delay [s/veh]	34.53		55.25		50.53	
Approach LOS	C		E		D	
d_I, Intersection Delay [s/veh]	50.36					
Intersection LOS	D					
Intersection V/C	0.955					

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	0.00	0.00
l_p,int, Pedestrian LOS Score for Intersection	0.000	0.000	0.000
Crosswalk LOS	F	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	60.00	60.00	60.00
l_b,int, Bicycle LOS Score for Intersection	4.651	5.740	6.256
Bicycle LOS	E	F	F

Sequence

Ring 1	-	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



APPENDIX I

ADDENDUM TO TRAFFIC IMPACT ANALYSIS

ganddini

ACCEPTED AS ADDENDUM to FEB 22, 2021 TIA.

transportation ▪ noise ▪ air quality | **GANDDINI GROUP**

February 22, 2021

Ms. Claudia Grajeda, Project Manager
J & T MANAGEMENT, INC.
139 Radio Road
Corona, CA 92879

RE: Sandalwood Travel Center Project Response to Comments
19317

Dear Ms. Grajeda:

INTRODUCTION

Ganddini Group, Inc. is pleased to offer this letter in response to City of Calimesa Traffic Impact Analysis Second Review (March 1, 2021) for the Sandalwood Travel Center Project. The comment letter is provided in Attachment A. An updated traffic impact analysis dated February 22, 2021 was prepared to incorporate previous comments from the first review (January 13, 2021).

COMMENT 1

Vehicles Miles Traveled (VMT)
Summary – (No Comments)
Consistent with City guidelines this land use project was assessed with the appropriate screening steps:

- Transit Priority Area (TPA) Screening
- Low VMT Area Screening
- Project Type Screening

The proposed Project satisfies the City established VMT screening criteria for Low VMT area screening and project type screening.

- The VMT screening analysis is accepted as submitted.

Response

Comment noted.

COMMENT 2

Specific TIA Report Comments

This updated report analysis eliminates the fair share contribution for intersection #8 due to the all-way stop (AWS) condition and analysis in the updated report.

Ms. Claudia Grajeda, Project Manager
J & T MANAGEMENT, INC.
February 22, 2021

Please reference the updated existing condition and the Level of Service effect now presented in the February 21 report; and thus the elimination of the previously stated deficiency and fair share contribution.

An addendum format, which may also serve as a RTC, can be presented for inclusion to the February 22, 2021 report. Please have the item stamped and signed by the project T.E. This will eliminate the need to revise the report.

Response

The update to the February 22, 2021 traffic impact analysis for intersection #8 was based on comment #3 of the first review, which noted that this intersection is all way stop controlled, and not cross street stop controlled. Therefore, with reanalysis as an all way stop controlled intersection, the existing LOS during the AM peak hour went from 55.9-F (first TIA as CSS) to 17.5-C (updated TIA as AWS). Thus, the intersection operates at acceptable LOS, and the deficiency and fair share contribution in the first TIA no longer applies.

CONCLUSION

We appreciate the opportunity to assist you with this project. Should you have any questions or if we can be of further assistance, please contact me at 714-975-3100.

Respectfully,

Bryan Crawford
Senior Transportation Planner



Giancarlo Ganddini, PE, PTP
Principal

ATTACHMENT A

Comment Letter

Traffic Impact Analysis Review

Engineers/Surveyors

2305 Chicago Avenue
Riverside, California 92507
(951) 680-0440 Fax (951) 680-0490

SUBMITTAL NO. 2	DATE: 3/1/2021
PROJECT NO: DPR 20-05	

TO: City of Calimesa,
Mike Thornton, City Engineer

Ganddini Group, Bryan Crawford

Cc: Kelly Lucia, Planning Manager
Michelle Arellano, TKE

FROM: Monae Pugh
Traffic Engineering

LOCATION 7th Street

SUBJECT Traffic Impact Analysis / PC #2 Comments

Report dated February 22, 2021

The following Comments are being offered for the Traffic Impact Analysis dated February 22, 2021.

On behalf of the City of Calimesa, TKE Engineering has completed the second (2nd) review of the Traffic Impact Analysis Report for the Project known as Sandalwood Travel Center.

Vehicles Miles Traveled (VMT)
Summary – (No Comments)
Consistent with City guidelines this land use project was assessed with the appropriate screening steps:

- Transit Priority Area (TPA) Screening
- Low VMT Area Screening
- Project Type Screening

The proposed Project satisfies the City established VMT screening criteria for Low VMT area screening and project type screening.

- The VMT screening analysis is accepted as submitted.

Specific TIA Report Comments:

This updated report analysis eliminates the fair share contribution for intersection #8 due to the all-way stop (AWS) condition and analysis in this updated report.

Please reference the updated existing condition and the Level of Service effect now presented in the February 2021 report; and thus the elimination of the previously stated deficiency and fair share contribution.

An addendum format, which may also serve as a RTC, can be presented for inclusion to the February 22, 2021 report. Please have the item stamped and signed by the project T.E.
This will eliminate the need to revise the report.

Thank you for your submittal. Diligent effort is made, in the entitlement process, to provide comprehensive comments. The City reserves the right to include additional comments as deemed necessary and appropriate throughout the review process.



GANDDINI GROUP, INC.
550 Parkcenter Drive, Suite 202, Santa Ana, CA 92705
714.795.3100 | www.ganddini.com

Appendix J-2

Trip Generation Comparison Analysis

August 19, 2022

Ms. Claudia Grajeda, Project Manager
J & T INVESTMENTS, INC.
139 Radio Road
Corona, California 92879

RE: Sandalwood Travel Center Trip Generation Comparison Analysis
Project No.: 19317

Dear Ms. Grajeda:

Ganddini Group, Inc. is pleased to provide this Trip Generation Comparison Analysis for the proposed Sandalwood Travel Center Project. The purpose of this trip generation comparison analysis is to evaluate the change in trip generation that can be expected between the original project as analyzed in the February 22, 2021 traffic impact analysis and the current site plan. We trust the findings of this analysis will aid you and the City of Calimesa in assessing the project.

PROJECT DESCRIPTION

The project site is located between 7th Street and the I-10 Freeway approximately 1,000 feet north of Sandalwood Drive in the City of Calimesa. Figure 1 illustrates the project location map.

The currently vacant project site was proposed to be developed with a 7,110 square foot travel center with eight (8) vehicle fueling positions, four (4) diesel fueling positions, and a fast-food restaurant with drive-through window in the February 22, 2021 traffic impact analysis. Figure 2 illustrates the proposed project site plan.

The currently vacant project site is currently proposed to be developed with a 7,034 square foot travel center with eight (8) vehicle fueling positions and four (4) diesel fueling positions. Access for the project site is proposed to 7th Street via three project driveways. The project north driveway is proposed as a full access driveway. The project central driveway is proposed as an outbound only full access driveway. The project south driveway is proposed as an inbound only full access driveway. On-site signage and pavement markings for these inbound and outbound only project driveways should be included in the final site design to the satisfaction of the City of Calimesa Department of Public Works. On-street parking on 7th Street will be prohibited. The project north driveway will service the normal travel center operations whereas the project central driveway and project south driveway will service the four (4) diesel fueling positions. Figure 3 illustrates the project site plan.

ORIGINAL PROJECT TRIP GENERATION PER FEBRUARY 22, 2021 TRAFFIC IMPACT ANALYSIS

Table 1 shows the original project trip generation based upon rates obtained from Institute of Transportation Engineers (ITE) *Trip Generation Manual* (10th Edition, 2017). Trip generation rates were determined for daily trips, AM peak hour inbound and outbound trips, and PM peak hour inbound and outbound trips for the proposed land use. Trip generation rates for Land Use Code 853 – Convenience

Market with Gasoline Pumps, Land Use Code 944 – Gasoline/Service Station, and Land Use Code 934 – Fast-Food Restaurant with Drive Through Window were used for the proposed project. The number of trips forecast to be generated by the proposed project are determined by multiplying the trip generation rates by the land use quantities.

As shown in Table 1, the proposed project is forecast to generate a total of approximately 3,693 daily trips, including 251 trips during the AM peak hour and 268 trips during the PM peak hour.

The total gross floor area for the convenience market and fast-food restaurant with drive-thru is 7,110 square feet. The convenience market is 3,849 square feet, the fast-food restaurant is 1,400 square feet, and the common area is 1,861 square feet. The common area consists of bathrooms, showers, laundry, storage, and a seating area for truckers. Approximately 80 percent of the common area has been allocated to the convenience center and 20 percent to the fast-food restaurant with drive-thru for trip generation purposes. Thus, the convenience market has been analyzed at 5,388 square feet and the fast-food restaurant with drive-thru has been analyzed at 1,772 square feet. For trip generation purposes, the convenience market would be shared by the standard gas station pumps and the diesel fueling facility pumps.

The trip generation forecast used for this analysis provides a very conservative estimate because the ITE trip generation rates for Land Use Code 944 represent the number of trips generated per vehicle fueling position at a standard passenger car fueling pump. ITE did currently provide trip generation rates for a diesel fueling facility when the analysis was conducted. In reality, the proposed diesel fueling stations are likely to have a much lower service rate due to longer fueling times and lower demand compared to passenger cars. Furthermore, the trip generation forecast does not include reductions for pass-by trips.

Land uses such as shopping centers, restaurants, gasoline stations, and convenience stores will often locate next to busy roadways to attract motorists already on the street. Since the trip generation rates contained in the ITE *Trip Generation Manual* represent vehicles entering and exiting at the site driveway(s), it is appropriate to reduce the initial trip generation forecast by the applicable pass-by trip rate when calculating the net new trips that will be added to the surrounding street system. Pass-by trip reductions were not applied in this analysis since 7th Street adjacent to the project site has minimal traffic volumes relative to the pass-by trip reduction that would be calculated based on ITE rates.

Traffic volumes shown in Table 1 consist of the total trips generated for each project land use. As a service station trip generated by the project may also interact with the restaurant land use within the project, a double counting of those trips occurs. To account for this internal interaction, the trips generated by the project site have been adjusted by 10 percent.

ORIGINAL PROJECT TRIP GENERATION UPDATED TO CURRENT ITE TRIP GENERATION MANUAL (11TH EDITION)

Table 2 shows the original project trip generation based upon rates obtained from ITE *Trip Generation Manual* (11th Edition, 2021). Trip generation rates were determined for daily trips, AM peak hour inbound and outbound trips, and PM peak hour inbound and outbound trips for the proposed land use. Trip generation rates for Land Use Code 945 – Convenience Store/Gas Station (2-4k GFA), Land Use Code 950 – Truck Stop, and Land Use Code 934 – Fast-Food Restaurant with Drive Through Window were used for the proposed project. The number of trips forecast to be generated by the proposed project are determined by multiplying the trip generation rates by the land use quantities. Conversion of the original project from the 10th edition to the 11th edition of the ITE *Trip Generation Manual* has been conducted for informational

purposes to show the land use and trip generation rate changes that would apply to the original project if the original project trip generation were to be calculated using the most recent ITE *Trip Generation Manual*.

As shown in Table 2, the original project converted to the 11th Edition of the ITE *Trip Generation Manual* is forecast to generate a total of approximately 3,304 daily trips, including 222 trips during the AM peak hour and 230 trips during the PM peak hour.

The total gross floor area for the convenience market and fast-food restaurant with drive-thru is 7,110 square feet. The convenience market is 3,849 square feet, the fast-food restaurant is 1,400 square feet, and the common area is 1,861 square feet. The common area consists of bathrooms, showers, laundry, storage, and a seating area for truckers and has been allocated in its entirety to the truck stop. For trip generation purposes, the convenience market would be shared by the standard gas station pumps and the diesel fueling facility pumps.

A truck stop as defined by ITE includes "Commercial vehicle fueling, space and supplies for self-service vehicle maintenance, and other services specific to the needs of truckers (e.g., showers, on-site trucking parking area. The facility typically contains a convenience store, restroom facilities, and one or more restaurants." Since the trip generation rates include convenience store, restroom facilities, showers, and other services specific to truckers, the 1,861 square feet of common area is included within the trip generation for this land use. It should be noted that a double counting of trips for the convenience market may occur since the Convenience Store/Gas Station (ITE Land Use Code 945) and Truck Stop (ITE Land Use Code 950) both include convenience market trips. Although this land use includes restaurants, the fast-food restaurant with drive-thru has been analyzed separately to provide for a conservative analysis.

Land uses such as shopping centers, restaurants, gasoline stations, and convenience stores will often locate next to busy roadways to attract motorists already on the street. Since the trip generation rates contained in the ITE *Trip Generation Manual* represent vehicles entering and exiting at the site driveway(s), it is appropriate to reduce the initial trip generation forecast by the applicable pass-by trip rate when calculating the net new trips that will be added to the surrounding street system. Pass-by trip reductions were not applied in this analysis since 7th Street adjacent to the project site has minimal traffic volumes relative to the pass-by trip reduction that would be calculated based on ITE rates.

Traffic volumes shown in Table 2 consist of the total trips generated for each project land use. As a service station trip generated by the project may also interact with the restaurant land use within the project, a double counting of those trips occurs. To account for this internal interaction, the trips generated by the project site have been adjusted by 10 percent.

CURRENT PROJECT TRIP GENERATION

Table 3 shows the current project trip generation based upon rates obtained from ITE *Trip Generation Manual* (11th Edition, 2021). Trip generation rates were determined for daily trips, AM peak hour inbound and outbound trips, and PM peak hour inbound and outbound trips for the proposed land use. Trip generation rates for Land Use Code 945 – Convenience Store/Gas Station (4-5.5k GFA) and Land Use Code 950 – Truck Stop were used for the proposed project. The number of trips forecast to be generated by the proposed project are determined by multiplying the trip generation rates by the land use quantities.

As shown in Table 3, the current project is forecast to generate a total of approximately 2,658 daily trips, including 243 trips during the AM peak hour and 220 trips during the PM peak hour.

The total gross floor area for the convenience market building is 7,034 square feet. The convenience market is 4,884 square feet and the common area is 2,150 square feet. The common area consists of bathrooms, showers, laundry, storage, and a seating area for truckers and has been allocated in its entirety to the truck stop. For trip generation purposes, the convenience market would be shared by the standard gas station pumps and the diesel fueling facility pumps.

A truck stop as defined by ITE includes "Commercial vehicle fueling, space and supplies for self-service vehicle maintenance, and other services specific to the needs of truckers (e.g., showers, on-site trucking parking area. The facility typically contains a convenience store, restroom facilities, and one or more restaurants." Since the trip generation rates include convenience store, restroom facilities, showers, and other services specific to truckers, the 1,861 square feet of common area is included within the trip generation for this land use. It should be noted that a double counting of trips for the convenience market may occur since the Convenience Store/Gas Station (ITE Land Use Code 945) and Truck Stop (ITE Land Use Code 950) both include convenience market trips.

Land uses such as shopping centers, restaurants, gasoline stations, and convenience stores will often locate next to busy roadways to attract motorists already on the street. Since the trip generation rates contained in the ITE *Trip Generation Manual* represent vehicles entering and exiting at the site driveway(s), it is appropriate to reduce the initial trip generation forecast by the applicable pass-by trip rate when calculating the net new trips that will be added to the surrounding street system. Pass-by trip reductions were not applied in this analysis since 7th Street adjacent to the project site has minimal traffic volumes relative to the pass-by trip reduction that would be calculated based on ITE rates.

Traffic volumes shown in Table 3 consist of the total trips generated for each project land use. As a service station trip generated by the project may also interact with the truck stop land use within the project, a double counting of those trips occurs. To account for this internal interaction, the trips generated by the project site have been adjusted by 10 percent.

TRIP GENERATION COMPARISON

Table 4 shows the difference in project trip generation between the original project and the proposed project.

As shown in Table 4, the original project as analyzed in the February 22, 2021 traffic impact analysis compared to the updated land uses and rates within the ITE *Trip Generation Manual* (11th Edition, 2021) is forecast to generate approximately 389 fewer daily trips, including 29 fewer trips during the AM peak hour and 38 fewer trips during the PM peak hour.

As shown in Table 4, the original project as analyzed in the February 22, 2021 traffic impact analysis compared to the current project and updated land uses and rates within the ITE *Trip Generation Manual* (11th Edition, 2021) is forecast to generate approximately 1,035 fewer daily trips, including 8 fewer trips during the AM peak hour and 48 fewer trips during the PM peak hour.

Ms. Claudia Grajeda, Project Manager
J & T INVESTMENTS, INC.
August 19, 2022

CONCLUSION

Based on the trip generation comparison analysis, the currently proposed project is forecast to generate fewer AM peak hour, PM peak hour, and daily trips compared to the original project as analyzed in the February 22, 2021 traffic impact analysis.

Therefore, the impact of the currently proposed project would be the same or less as documented in the February 22, 2021 traffic impact analysis and the currently proposed project does not warrant additional transportation analysis.

We appreciate the opportunity to assist you on this project. Should you have any questions or if we can be of further assistance, please do not hesitate to call at (714) 795-3100 x 103.

Sincerely,

GANDDINI GROUP, INC.
Bryan Crawford | Senior Associate
Giancarlo Ganddini, PE, PTP | Principal



Table 1
Original Project Trip Generation
(February 22, 2021 Traffic Impact Analysis)

Trip Generation Rates									
			AM Peak Hour			PM Peak Hour			Daily
Land Use	Source[1]	Units[2]	% In	% Out	Rate	% In	% Out	Rate	Rate
Convenience Market with Gasoline Pumps	ITE 853	VFP	50%	50%	20.76	50%	50%	23.04	322.50
Diesel Fueling Facility/Gas Station	ITE 944	VFP	50%	50%	10.28	50%	50%	14.03	172.01
Fast-Food Restaurant with Drive-Thru	ITE 934	TSF	51%	49%	40.19	52%	48%	32.67	470.95

Trips Generated									
			AM Peak Hour			PM Peak Hour			
Land Use	Quantity	Units[2]	In	Out	Total	In	Out	Total	Daily
Convenience Market with Gasoline Pumps[3]	8	VFP	83	83	166	92	92	184	2,580
Diesel Fueling Facility/Gas Station[4]	4	VFP	21	21	42	28	28	56	688
Fast-Food Restaurant with Drive-Thru	1.772	TSF	36	35	71	30	28	58	835
Subtotal			140	139	279	150	148	298	4,103
Internal Capture (10%) [5]			*-14*	*-14*	*-28*	*-15*	*-15*	*-30*	*-410*
Total			126	125	251	135	133	268	3,693

Notes:

(1) ITE = Institute of Transportation Engineers *Trip Generation Manual* (10th Edition, 2017); ### = Land Use Code

(2) VFP = Vehicle Fueling Positions; TSF = Thousand Square Feet

(3) The total gross floor area for the convenience market and fast-food restaurant with drive-thru is 7,110 square feet. The convenience market is 3,849 square feet, the fast-food restaurant is 1,400 square feet, and the common area is 1,861 square feet. The common area consists of bathrooms, showers, laundry, storage, and a seating area for truckers. 80 percent of the common area has been allocated to the convenience center and 20 percent to the fast-food restaurant with drive-thru for trip generation purposes. Thus, the convenience market has been analyzed at 5,388 square feet and the fast-food restaurant with drive-thru has been analyzed at 1,772 square feet. For trip generation purposes, the convenience market would be shared by the standard gas station pumps and the diesel fueling facility pumps.

(4) A passenger car equivalent (PCE) is a metric to assess the impact of larger vehicles, such as trucks, recreational vehicles, and buses, by converting the traffic volume of larger vehicles to an equivalent number of passenger cars. In consultation with City of Calimesa staff, the passenger car equivalent for a Semi-Truck/RV using the Diesel fueling facility would be 3.0. Thus, each trip generated by the Diesel fueling facility would be equivalent to 3 passenger cars.

However, it is important to note that the trip generation used in this report for the Diesel fueling facility is a very conservative estimate because the ITE trip generation rates for Land Use Code 944 represent the number of trips generated per vehicle fueling position at a standard passenger car fueling pump. ITE does not currently provide trip generation rates for a Diesel fueling facility In reality, the proposed Diesel fueling stations are likely to have a much lower service rate due to longer fueling times and lower demand compared to passenger cars. Furthermore, the trip generation forecast does not include reductions for pass-by trips.

For these reasons, the passenger car equivalent of 3.0 was not applied to the trip generation for the Diesel fueling facility.

(5) An internal capture of 10% was applied to account for interaction between the land uses.

Table 2
Original Project Trip Generation
(Updated to ITE Trip Generation Manual 11th Edition)

Trip Generation Rates									
			AM Peak Hour			PM Peak Hour			Daily
Land Use	Source[1]	Units[2]	% In	% Out	Rate	% In	% Out	Rate	Rate
Convenience Store/Gas Station (2-4k GFA)	ITE 945	VFP	50%	50%	16.06	50%	50%	18.42	265.12
Truck Stop	ITE 950	VFP	49%	51%	13.97	53%	47%	15.42	224.00
Fast-Food Restaurant with Drive-Thru	ITE 934	TSF	51%	49%	44.61	52%	48%	33.03	467.48

Trips Generated									
			AM Peak Hour			PM Peak Hour			
Land Use	Quantity	Units[2]	In	Out	Total	In	Out	Total	Daily
Convenience Store/Gas Station (2-4k GFA)[3]	8	VFP	64	64	128	74	74	148	2,121
Truck Stop[4]	4	VFP	27	28	55	33	29	62	896
Fast-Food Restaurant with Drive-Thru	1.4	TSF	32	31	63	24	22	46	654
Subtotal			123	123	246	131	125	256	3,671
Internal Capture (10%) [5]			*-12*	*-12*	*-24*	*-13*	*-13*	*-26*	*-367*
Total			111	111	222	118	112	230	3,304

Notes:

(1) ITE = Institute of Transportation Engineers *Trip Generation Manual* (11th Edition, 2017); ### = Land Use Code

(2) VFP = Vehicle Fueling Positions; TSF = Thousand Square Feet

(3) The total gross floor area for the convenience market and fast-food restaurant with drive-thru is 7,110 square feet. The convenience market is 3,849 square feet, the fast-food restaurant is 1,400 square feet, and the common area is 1,861 square feet. The common area consists of bathrooms, showers, laundry, storage, and a seating area for truckers and has been allocated in its entirety to the truck stop. For trip generation purposes, the convenience market would be shared by the standard gas station pumps and the diesel fueling facility pumps.

(4) A truck stop as defined by ITE includes "Commercial vehicle fueling, space and supplies for self-service vehicle maintenance, and other services specific to the needs of truckers (e.g., showers, on-site trucking parking area. The facility typically contains a convenience store, restroom facilities, and one or more restaurants." Since the trip generation rates include convenience store, restroom facilities, showers, and other services specific to truckers, the 1,861 square feet of common area is included within the trip generation for this land use. It should be noted that a double counting of trips for the convenience market may occur since the Convenience Store/Gas Station (ITE Land Use Code 945) and Truck Stop (ITE Land Use Code 950) both include convenience market trips. Although this land use includes restaurants, the fast-food restaurant with drive-thru has been analyzed separately to provide for a conservative analysis.

(5) An internal capture of 10% was applied to account for interaction between the land uses.

Table 3
Current Project Trip Generation

Trip Generation Rates									
			AM Peak Hour			PM Peak Hour			Daily
Land Use	Source[1]	Units[2]	% In	% Out	Rate	% In	% Out	Rate	Rate
Convenience Store/Gas Station (4-5.5k GFA)	ITE 945	VFP	50%	50%	27.04	50%	50%	22.76	257.13
Truck Stop	ITE 950	VFP	49%	51%	13.97	53%	47%	15.42	224.00

Trips Generated									
			AM Peak Hour			PM Peak Hour			
Land Use	Quantity	Units[2]	In	Out	Total	In	Out	Total	Daily
Convenience Store/Gas Station (4-5.5k GFA)[3]	8	VFP	108	108	216	91	91	182	2,057
Truck Stop[4]	4	VFP	27	28	55	33	29	62	896
Subtotal			135	136	271	124	120	244	2,953
Internal Capture (10%)[5]			*-14*	*-14*	*-28*	*-12*	*-12*	*-24*	*-295*
Total			121	122	243	112	108	220	2,658

Notes:

(1) ITE = Institute of Transportation Engineers *Trip Generation Manual* (11th Edition, 2021); ### = Land Use Code

(2) VFP = Vehicle Fueling Positions

(3) The total gross floor area for the convenience market building is 7,034 square feet. The convenience market is 4,884 square feet and the common area is 2,150 square feet. The common area consists of bathrooms, showers, laundry, storage, and a seating area for truckers and has been allocated in its entirety to the truck stop. For trip generation purposes, the convenience market would be shared by the standard gas station pumps and the diesel fueling facility pumps.

(4) A truck stop as defined by ITE includes "Commercial vehicle fueling, space and supplies for self-service vehicle maintenance, and other services specific to the needs of truckers (e.g., showers, on-site trucking parking area. The facility typically contains a convenience store, restroom facilities, and one or more restaurants." Since the trip generation rates include convenience store, restroom facilities, showers, and other services specific to truckers, the 1,861 square feet of common area is included within the trip generation for this land use. It should be noted that a double counting of trips for the convenience market may occur since the Convenience Store/Gas Station (ITE Land Use Code 945) and Truck Stop (ITE Land Use Code 950) both include convenience market trips.

(5) An internal capture of 10% was applied to account for interaction between the land uses.

Table 4
Project Trip Generation Comparison

Original Project Trip Generation Comparison - ITE 10th Edition to 11th Edition							
	Trips Generated						
	AM Peak Hour			PM Peak Hour			
Land Use	In	Out	Total	In	Out	Total	Daily
Original Project - ITE 10th Edition[1]	126	125	251	135	133	268	3,693
Original Project - ITE 11th Edition[2]	111	111	222	118	112	230	3,304
Difference	**-15**	**-14**	**-29**	**-17**	**-21**	**-38**	**-389**
	-13.5%	**-12.6%**	**-13.1%**	**-14.4%**	**-18.8%**	**-16.5%**	**-11.8%**

Original to Current Project Trip Generation Comparison - ITE 10th Edition to 11th Edition							
	Trips Generated						
	AM Peak Hour			PM Peak Hour			
Land Use	In	Out	Total	In	Out	Total	Daily
Original Project - ITE 10th Edition[1]	126	125	251	135	133	268	3,693
Current Project - ITE 11th Edition[3]	121	122	243	112	108	220	2,658
Difference	**-5**	**-3**	**-8**	**-23**	**-25**	**-48**	**-1,035**
	-4.1%	**-2.5%**	**-3.3%**	**-20.5%**	**-23.1%**	**-21.8%**	**-38.9%**

Notes:

(1) See Table 1.

(2) See Table 2.

(3) See Table 3.



Figure 1
Project Location Map

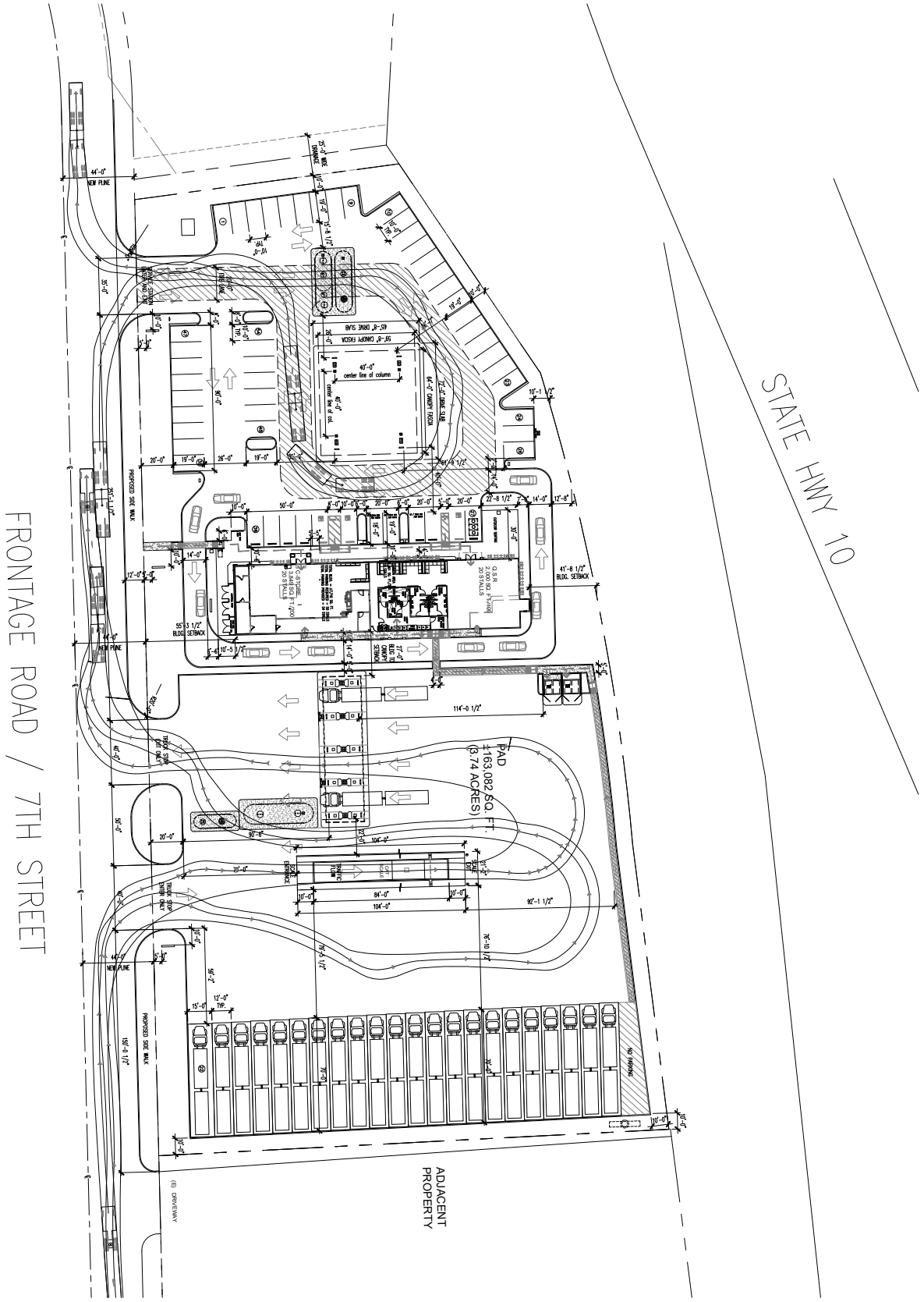


Figure 2
Original Site Plan

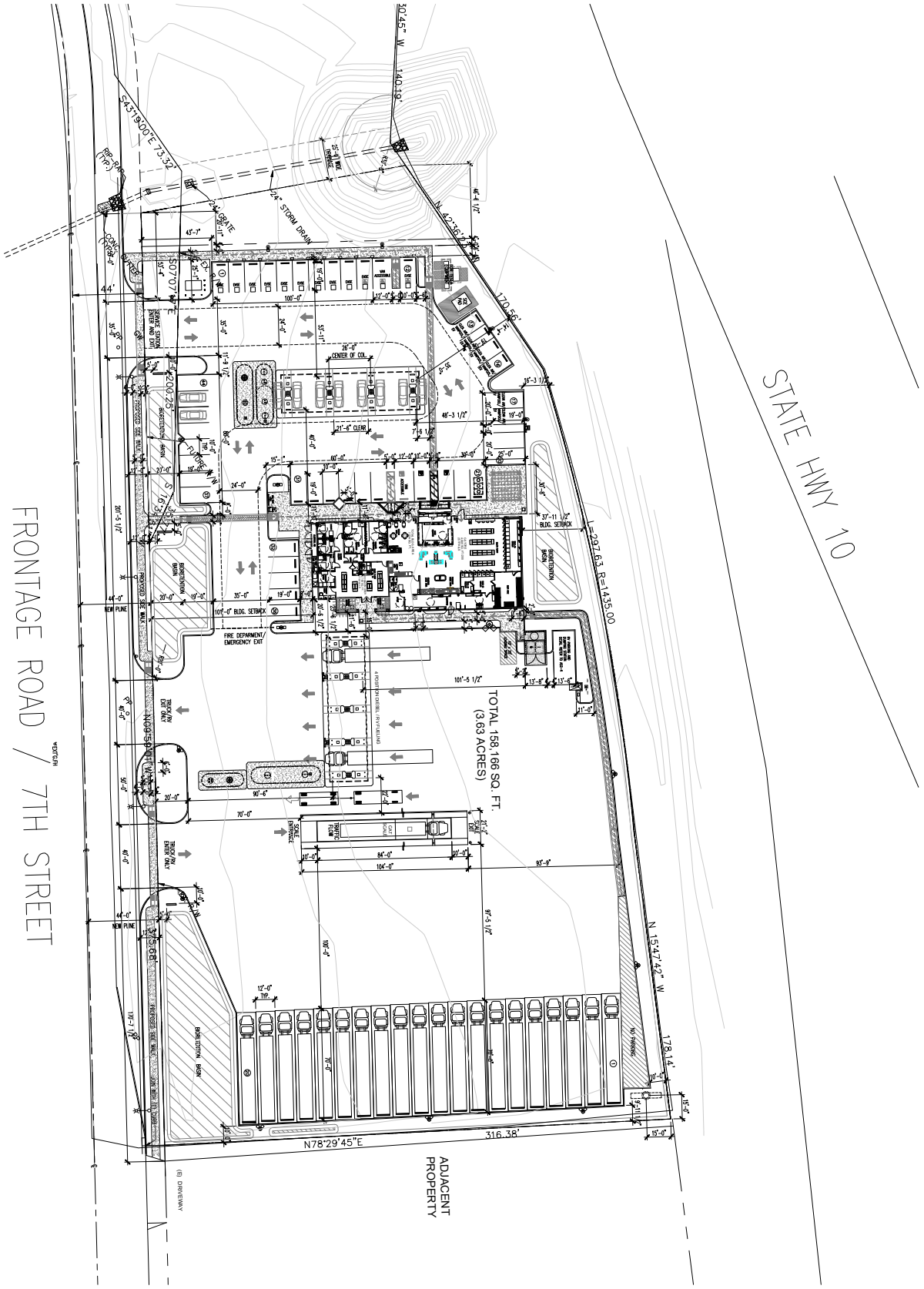


Figure 3
Current Site Plan

Appendix J-3

Response to Third-Party Review Traffic Impact Assessment Comments

March 27, 2025

Ms. Claudia Grajeda, Project Manager
J & T MANAGEMENT, INC.
139 Radio Road
Corona, California 92879

RE: Sandalwood Travel Center Project Response to Comments (Addendum #2)
Project No. 19317

Dear Ms. Grajeda:

Ganddini Group, Inc. is pleased to offer this letter in response to City of Calimesa comments received via e-mail (March 11, 2025 via Monae Pugh) of the traffic impact analysis (TIA) for the project prepared by Ganddini Group (*Sandalwood Travel Center Traffic Impact Analysis*, February 22, 2021). The comments are included in Attachment A.

This response to comments letter will serve as Addendum #2 to the TIA, as requested by City of Calimesa staff.

GENERAL COMMENT

We are in receipt of the memo prepared by Ganddini Group dated February 25, 2025. The memo is generally accepted; with the following comments:

Response to General Comment

Comment noted. This letter will address the comments and serve as Addendum #2, as Addendum #1 dated February 22, 2021 has already been accepted.

COMMENT #1

The original application for entitlement was not completed; however, the Traffic Impact Analysis (TIA) was reviewed and accepted in 2021.

An addendum to the TIA, dated February 22, 2021 was also accepted.

Addendum #2 is required to memorialize the following items relative to the Mesa Verde cumulative project:

Response to Comment #1

Comment noted. While the TIA was approved in 2021, the original application for entitlement was not completed. With the February 22, 2021 addendum accepted, this document will serve as Addendum #2 to memorialize the comments included in the aforementioned March 11, 2025 e-mail related to the Mesa Verde cumulative project.

Ms. Claudia Grajeda, Project Manager
J & T MANAGEMENT, INC.
March 27, 2025

COMMENT #2

Prepare a Memorandum (Addendum #2) to the previously approved TIA acknowledging the proposed changes in the cumulative project.

Please have the item stamped and signed by the Project T.E.

Response to Comment #2

This document will serve as Addendum #2 to acknowledge the proposed changes to the Mesa Verde Specific Plan project. This document is stamped and signed by the Traffic Engineer.

COMMENT #3

Please include relative information from the Mesa Verde Specific Plan Amendment 2 (cumulative project):

Reduced Trip Generation for cumulative project.

Response to Comment #3

Assessment of the new trip generation for the Mesa Verde Specific Plan was performed based on review of the *Mesa Verde Specific Plan Area 2 Amendment 2 Traffic Analysis* (Urban Crossroads, October 24, 2024). The following is an assessment of this request:

1. The February 22, 2021 TIA for the Sandalwood Travel Center included the Mesa Verde Specific Plan as a cumulative project. Phase 1A of the Mesa Verde Specific Plan was included in the analysis as a cumulative project since it was forecast to be constructed and operational based on the available information at the time of analysis, provided by City of Calimesa staff, for opening year (2022) conditions.
2. The Mesa Verde Specific Plan Phase 1A, as analyzed in the TIA, has not been constructed and is currently not operational.
3. *The Mesa Verde Specific Plan Area 2 Amendment 2 Traffic Analysis* (Urban Crossroads, October 24, 2024) provides an updated analysis and timeline for the Mesa Verde Specific Plan.
4. As shown in *The Mesa Verde Specific Plan Area 2 Amendment 2 Traffic Analysis* (Urban Crossroads, October 24, 2024), the updated opening year for Phase 1 of the project is Year 2030.
5. Considering the proposed development (Sandalwood Travel Center) has not been developed and operational, the new opening year is estimated to be Year 2027 (2 years after existing year 2025 but three years prior to Phase 1 of the Mesa Verde Specific Plan).
6. Thus, Phase 1 of the Mesa Verde Specific Plan is not expected to be constructed and operational by the updated opening year (2027) for the proposed Sandalwood Travel Center project.

As stated, the first phase of the Mesa Verde Specific Plan has an updated opening year of 2030, which would not be constructed prior to the proposed project, even if assuming an updated estimated opening year of 2027 for the proposed Sandalwood Travel Center project. Thus, if the 2021 TIA was updated to reflect the new trip generation for the Mesa Verde Specific Plan based on its most recent 2024 TIA, it would be appropriate to remove the Mesa Verde Specific Plan from the cumulative list since it would not be generating traffic by the opening year of the Sandalwood Travel Center.

The following is a screenshot of the trip generation projected for Phase 1 of the Mesa Verde Specific Plan in the 2021 TIA:

Table 3
Other Development Trip Generation

Project Name	Land Use	Quantity	Units[1]	Trips Generated[2]						
				AM Peak Hour			PM Peak Hour			
				In	Out	Total	In	Out	Total	Daily
Summerwind Specific Plan[3]	Single-Family Detached Residential	600	DU	111	333	444	374	220	594	5,664
Heritage Oaks Specific Plan	Single-Family Detached Residential	45	DU	8	25	33	28	16	44	425
Singleton Heights	Single-Family Detached Residential	38	DU	7	21	28	24	14	38	359
JP Ranch[4]	Single-Family Detached Residential	121	DU	22	67	89	75	44	119	1,142
76/Circle K Fuel Station & C-Store[5]	Mixed-Use	--	--	79	66	145	73	69	142	2,836
RV Fueling Facility/Gas Station[6]	Mixed-Use	--	--	151	146	297	87	87	174	2,977
B&H Fuel Station & C-Store	Service Station w/ Convenience Market	8	VFP	51	49	100	57	55	112	1,643
	- Pass-By Reduction (62% AM, 56% PM)			-32	-30	-62	-32	-31	-63	-125
	Subtotal			19	19	38	25	24	49	1,518
18-121/CUP	Commercial Flex	37.211	TSF	9	6	15	7	8	15	463
17-103/CUP	Car Wash	1	ST	18	18	36	41	41	82	900
17-118/LUCR	Senior Attached Housing	96	DU	7	12	19	14	11	25	355
17-024/GPA/TTM 20040	Single-Family Detached Residential	29	DU	5	16	21	18	11	29	274
15-048/CUP/TTM 18167	Condominiums	57	DU	6	20	26	20	12	32	417
16-026/CUP, 15-137/ARC/TTM 17725	Condominiums	108	DU	11	38	49	38	22	60	791
14-151/CUP/ARC	Apartments	18	DU	2	6	8	6	4	10	132
17-089/LUCR	Duplex	2	DU	0	1	1	1	0	1	15
17-012/CUP	Multi-Family	14	DU	1	5	6	5	3	8	102
16-117/TTM 20031/CUP	Condominiums	68	DU	7	24	31	24	14	38	498
16-144/TTM 20066	Single-Family Detached Residential	18	DU	3	10	13	11	7	18	170
TTM 20252	Single-Family Detached Residential	13	DU	2	7	9	8	5	13	123
TTM 20263	Multi-Family	108	DU	11	38	49	38	22	60	791
20-118/CUP	Senior Housing	16	DU	1	2	3	2	2	4	59
20-088/LUCR	Multi-Family	3	DU	0	1	1	1	1	2	22
20-047/TPM	Single-Family Detached Residential	4	DU	1	2	3	2	1	3	38
20-046/TPM	Single-Family Detached Residential	4	DU	1	2	3	2	1	3	38
19-145/LUCR	Multi-Family	17	DU	2	6	8	6	4	10	124
Mesa Verde Specific Plan (Phase 1A)[7]	Single-Family Detached Residential	226	DU	42	125	167	141	83	224	2,133
Total				526	1,016	1,542	1,071	726	1,797	22,366

As shown above, the 2021 TIA included cumulative traffic in its analysis for the Mesa Verde Specific Plan, whereas, an updated Opening Year analysis would not include any cumulative traffic for the Mesa Verde Specific Plan due to its updated analysis. As such, the 2021 TIA is conservative being that it included cumulative traffic for the Mesa Verde Specific Plan, even if that project is no longer anticipated to be constructed by the proposed project opening year.

COMMENT #4

Please include relative information from the Mesa Verde Specific Plan Amendment 2 (cumulative project):

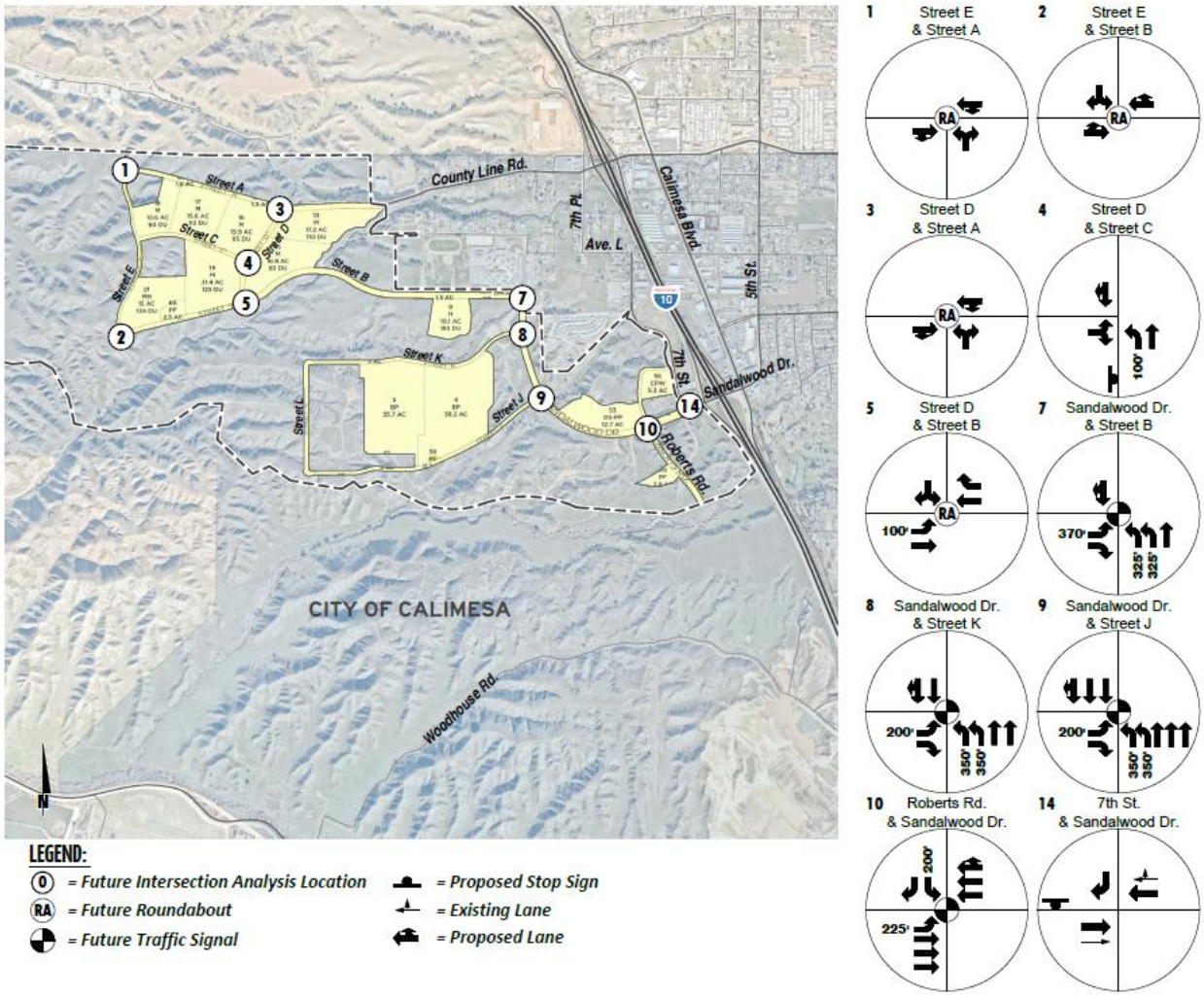
7th Street access restrictions (right-in/right-out @ Build-out year) effecting outbound Travel Center traffic.

Ms. Claudia Grajeda, Project Manager
J & T MANAGEMENT, INC.
March 27, 2025

Response to Comment #4

Exhibit 1-13: Phase 1 On-Site Recommendations from the *Mesa Verde Specific Plan Area 2 Amendment 2 Traffic Analysis* (Urban Crossroads, October 24, 2024) is as follows:

EXHIBIT 1-13 : PHASE 1 ON-SITE RECOMMENDATIONS



As shown in the above exhibit, the intersection of 7th Street at Sandalwood Drive (Int. #14) shows that the intersection will have future restrictions. A raised median will be constructed on Sandalwood Drive east-west through 7th Street prohibiting eastbound vehicles on Sandalwood Drive from making a left turn onto 7th Street and prohibiting southbound vehicles on 7th Street from making a left turn onto Sandalwood Drive.

As such, this will affect outbound traffic from the project site heading southbound on 7th Street from being able to make a left turn onto Sandalwood Drive since this turning movement will no longer be allowed.

Roberts Road will be constructed from Sandalwood Drive (west of 7th Street) connecting to 7th Street at the Project South Driveway. Project outbound traffic desiring to travel east will use Roberts Road in lieu of 7th Street to reach Sandalwood Drive upon completion of the Mesa Verde Specific Plan improvements at the

intersection of 7th Street/Sandalwood Drive. The response to the next comment explains this rerouting of outbound project traffic in greater detail.

COMMENT #5

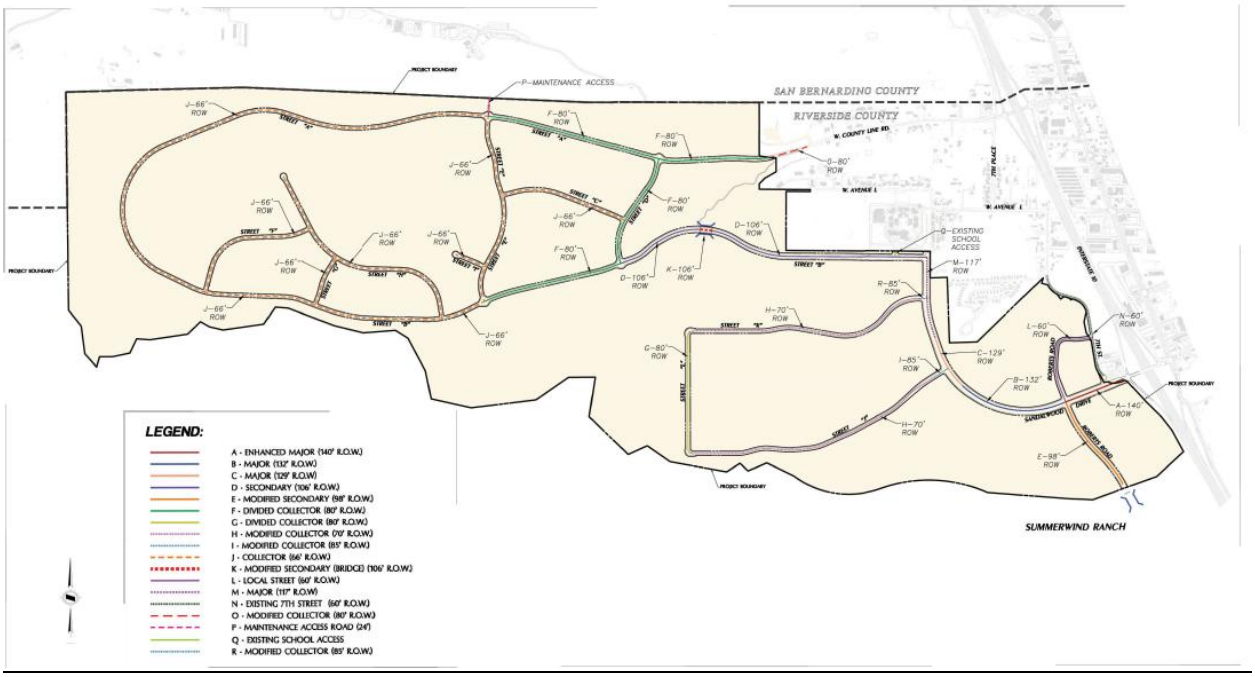
Please include relative information from the Mesa Verde Specific Plan Amendment 2 (cumulative project):

Roberts Road alignment with 7th Street (reroute outbound traffic).

Response to Comment #5

Exhibit 1-11: Project Circulation and Roadway Classifications from the *Mesa Verde Specific Plan Area 2 Amendment 2 Traffic Analysis* (Urban Crossroads, October 24, 2024) shows the Roberts Road realignment as follows:

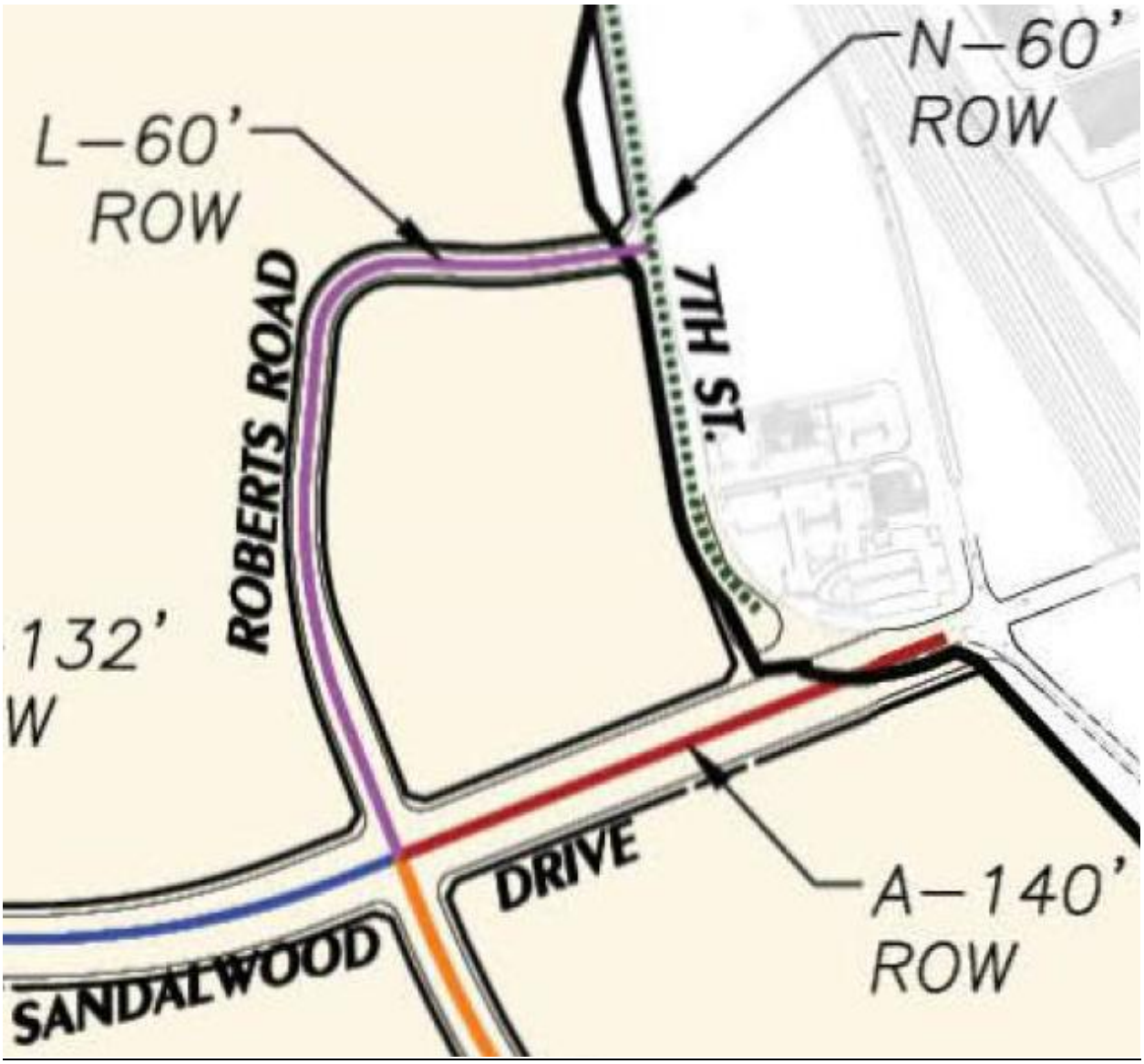
EXHIBIT 1-11 : PROJECT CIRCULATION AND ROADWAY CLASSIFICATIONS



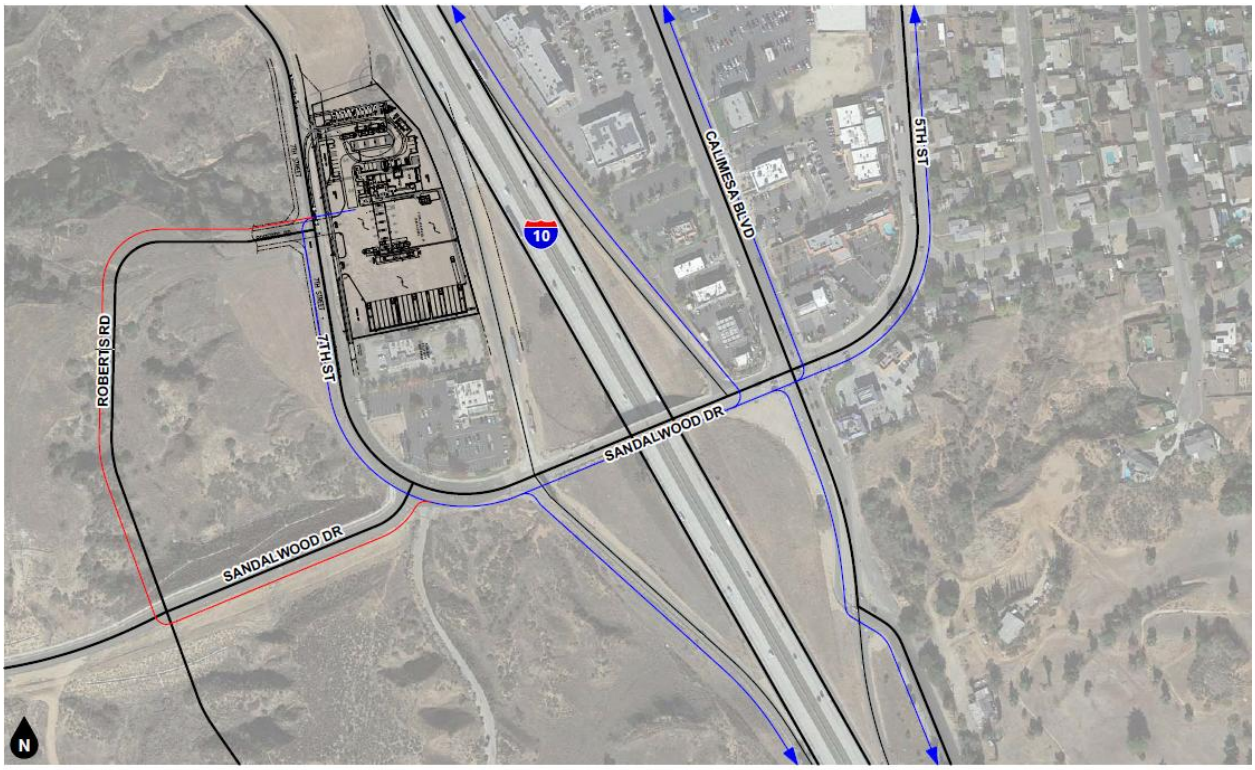
As shown above, Roberts Road (west of 7th Street) will be constructed south of Sandalwood Drive northbound to create a 4-legged intersection at Sandalwood Drive. Roberts Road will extend northbound from Sandalwood Drive making a near 90 degree turn eastbound connecting to 7th Street. A new intersection of 7th Street at Roberts Road will be constructed and the intersection will connect with the Project South Driveway.

Roberts Road will be constructed as a Local Street (60-foot right-of-way) from Sandalwood Drive to 7th Street.

The following shows Roberts Road from 7th Street to Sandalwood Drive in greater detail:



The following shows outbound traffic using the intersection of 7th Street at Sandalwood Drive to head eastbound on Sandalwood Drive towards the I-10 Freeway as shown in the 2021 TIA prior to construction of the improvements for the Mesa Verde Specific Plan, as well as the rerouting of traffic that will occur using Roberts Road to the future intersection of Roberts Road at Sandalwood Drive to head eastbound towards the I-10 Freeway:



As shown above, instead of outbound project traffic heading southbound on 7th Street and making a left turn onto Sandalwood Drive to head eastbound toward the I-10 Freeway, outbound project traffic will travel down Roberts Road making a left turn onto Sandalwood Drive to head eastbound toward the I-10 Freeway.

Ms. Claudia Grajeda, Project Manager
J & T MANAGEMENT, INC.
March 27, 2025

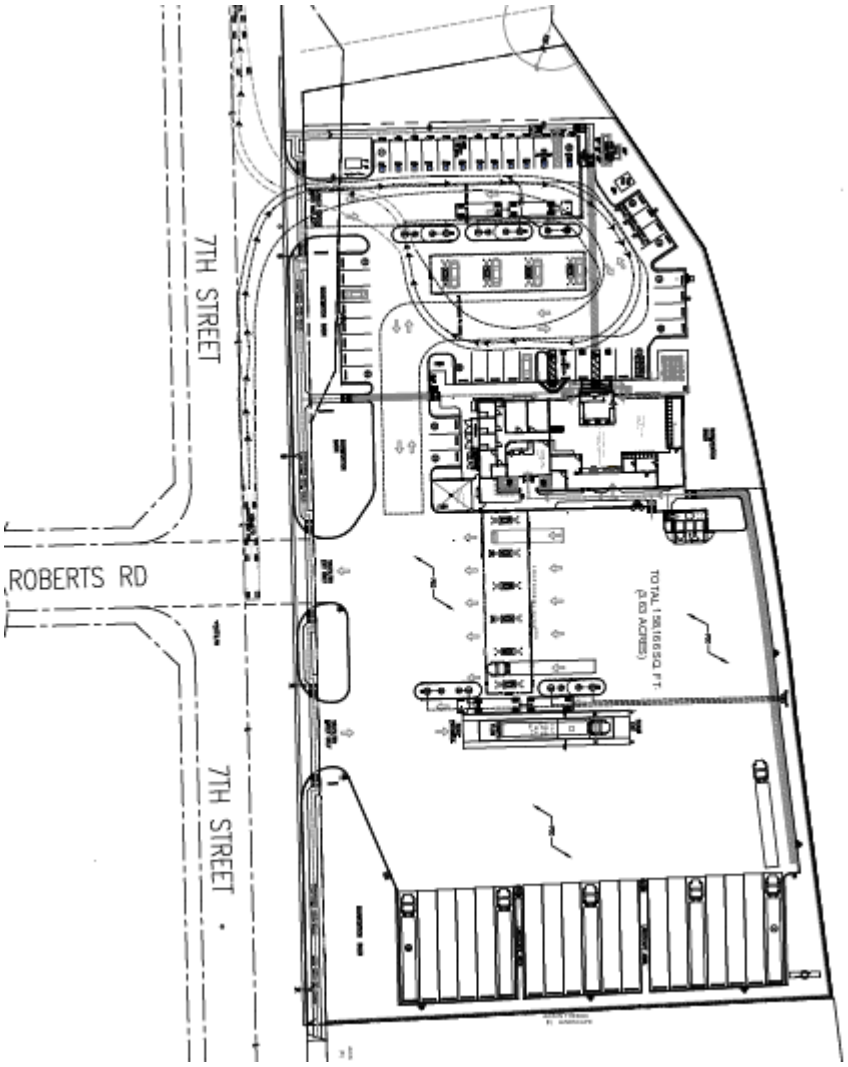
COMMENT #6

Please include relative information from the Mesa Verde Specific Plan Amendment 2 (cumulative project):

Provide an updated Exhibit for the proposed roadway alignment of Roberts Road @ 7th Street.

Response to Comment #5

The following is the project site plan approved by the City of Calimesa last year that shows Roberts Road aligned with the Project South Driveway. As shown below, the outbound access for the Project South Driveway will align as the east leg of the 7th Street at Roberts Road intersection.



Ms. Claudia Grajeda, Project Manager
J & T MANAGEMENT, INC.
March 27, 2025

COMMENT #7

Revision to level of service analysis of your project study intersections or mitigation is not required due to reduced cumulative traffic loads.

Response to Comment #7

As stated in Response to Comment #3, the 2021 TIA included analysis of Phase 1 for the Mesa Verde Specific Plan as known at the time. Updated analysis indicates that Phase 1 of the Mesa Verde Specific Plan will not occur until 2030, which is after the Opening Year of 2027 for the proposed project. Thus, no traffic would be associated with the Mesa Verde Specific Plan if the 2021 TIA was updated; whereas; the 2021 TIA did account for Phase 1 traffic for the Mesa Verde Specific Plan.

Since potential reanalysis would reduce cumulative (Mesa Verde Specific Plan) traffic volumes to zero and the 2021 TIA included the Mesa Verde Specific Plan as a cumulative with cumulative traffic added to the roadway network (see Response to Comment #3), revision to Level of Service (LOS) analysis at the project study intersections including potential mitigation is not required. The 2021 TIA LOS analysis is a conservative analysis being that it includes cumulative traffic for the Mesa Verde Specific Plan.

CONCLUSION

We recommend that the City of Calimesa approve this response to comments letter as Addendum #2 to the TIA.

We appreciate the opportunity to assist you with this project. Should you have any questions or if we can be of further assistance, please contact us at 714-975-3100.

Respectfully submitted,

GANDDINI GROUP, INC.
Bryan Crawford | Senior Transportation Planner
Giancarlo Ganddini, PE, PTP | Principal



ATTACHMENT A

City of Calimesa Comments

Gmail **Bryan Crawford <bryandavidcrawford@gmail.com>**

Sandalwood - Traffic Response

Monae Pugh <mpugh@tkeengineering.com> Tue, Mar 11, 2025 at 6:45 PM
To: Claudia Grajeda <claudia@jntmgmt.com>
Cc: Kelly Lucia <klucia@calimesa.gov>, sandalwood <sandalwood@jntmgmt.com>, Bryan Crawford <bryan@ganddini.com>, Giancarlo Ganddini <giancarlo@ganddini.com>, Mike Thornton <MThornton@cityofcalimesa.net>, Rachel Struglia <rstruglia@dudek.com>, Wendy Worthey <wworthey@rinconconsultants.com>, Travis Bradshaw <tbradshaw@calimesa.gov>

Hi Claudia,

We are in receipt of the memo prepared by Ganddini Group dated February 25, 2025.

The memo is generally accepted; with the following comments:

The original application for entitlement was not completed; however, the Traffic Impact Analysis (TIA) was reviewed and accepted in 2021.

An Addendum to the TIA, dated February 22,2021 was also accepted.

Addendum #2 is required to memorialize the following items relative to the Mesa Verde cumulative project:

Prepare a Memorandum (Addendum #2) to the previously approved TIA acknowledging the proposed changes in the cumulative project.

Please have the item stamped and signed by the Project T.E.

Please include relative information from the Mesa Verde Specific Plan Amendment 2 (cumulative project:

- Reduced Trip Generation for cumulative project.
- 7th Street access restrictions (right-in/right-out @ Build-out year)) effecting outbound Travel Center traffic.
- Roberts Road alignment with 7th Street (reroute outbound traffic).
- Provide an updated Exhibit for the proposed roadway alignment of Roberts Road @ 7th Street.

- Revision to level of service analysis of your project study intersections or mitigation is not required due to reduced cumulative traffic loads.

Warm Regards,

Monae Pugh

Senior Traffic Engineer